

118, 120, 122 = optional

Figure 1

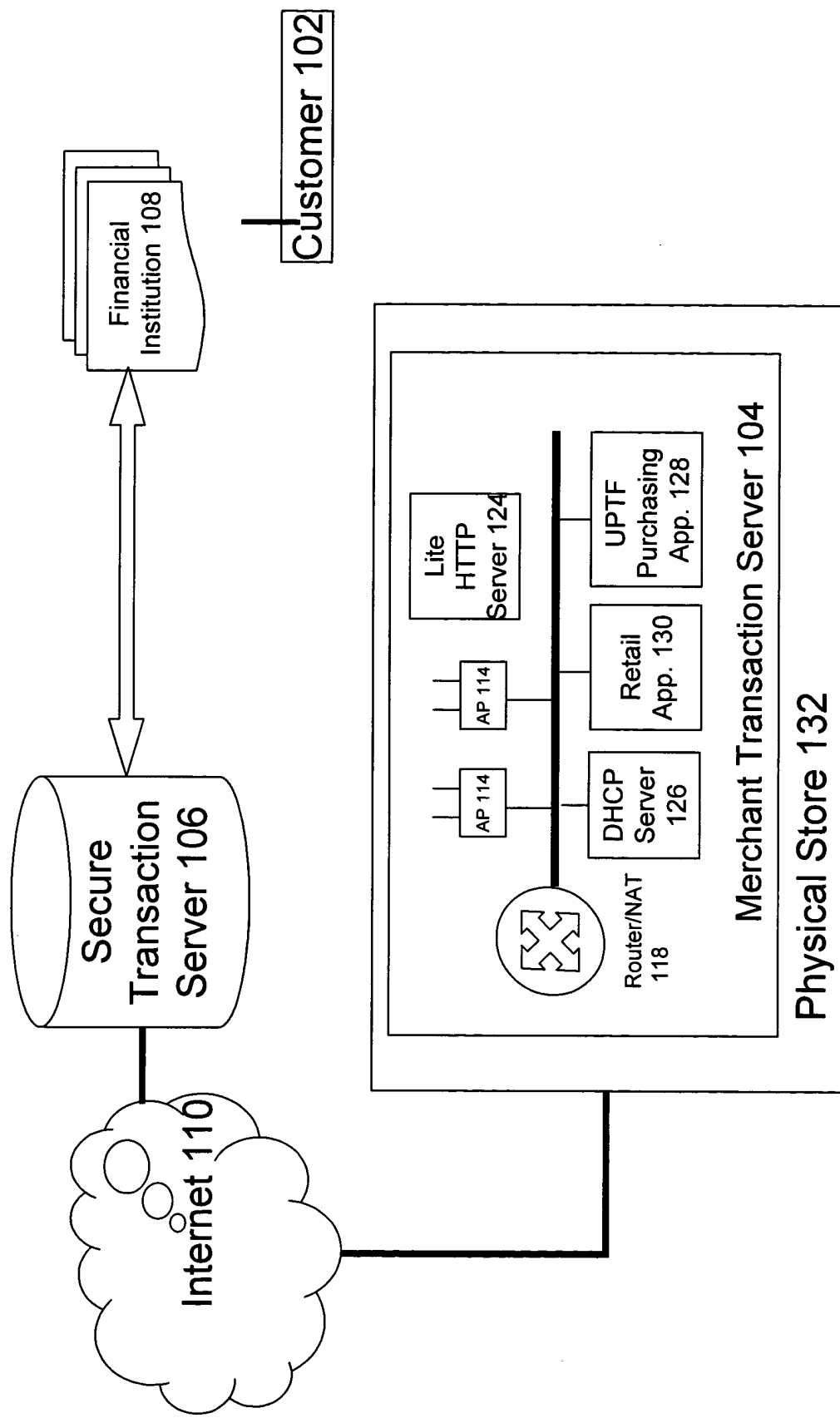


Figure 2

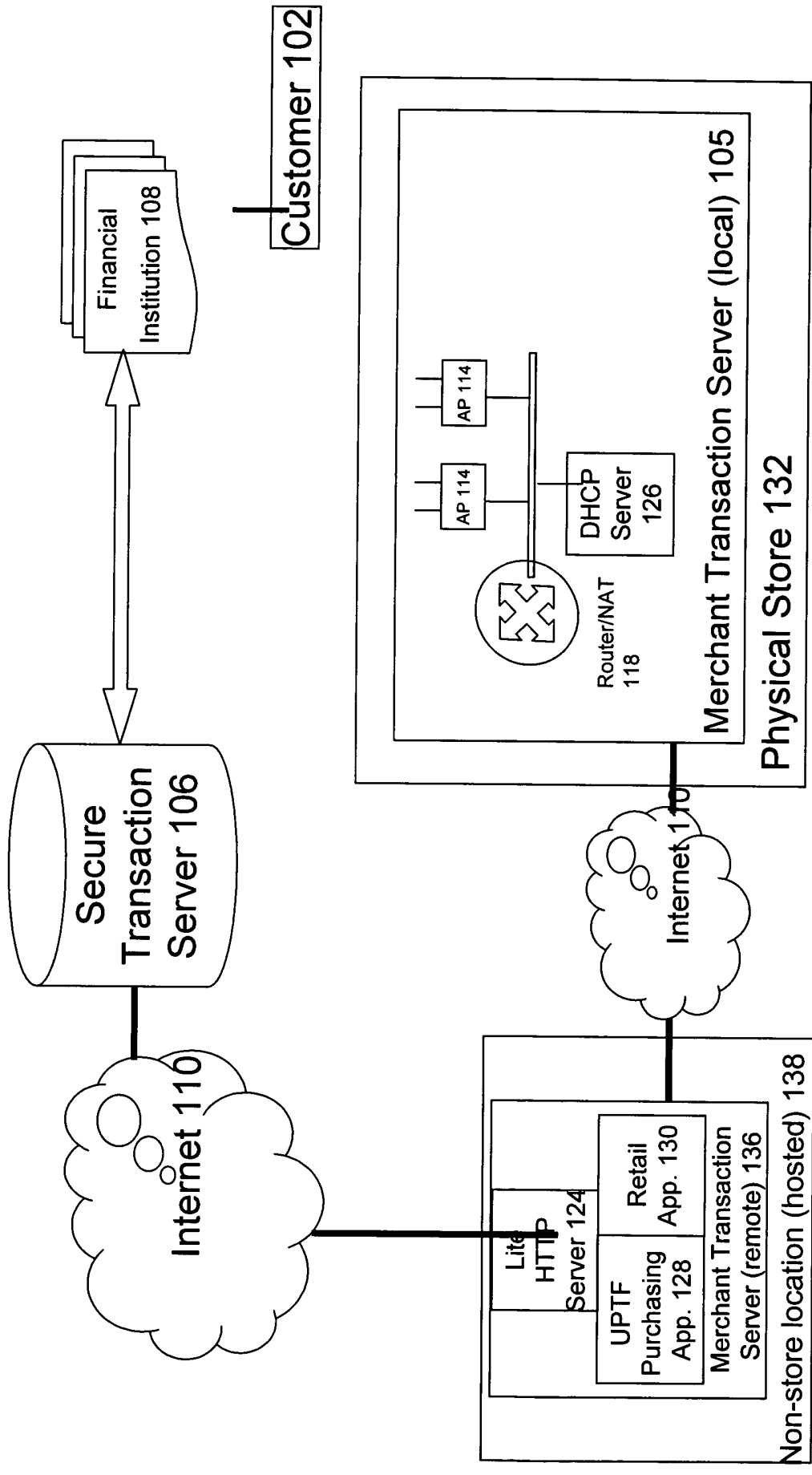


Figure 3

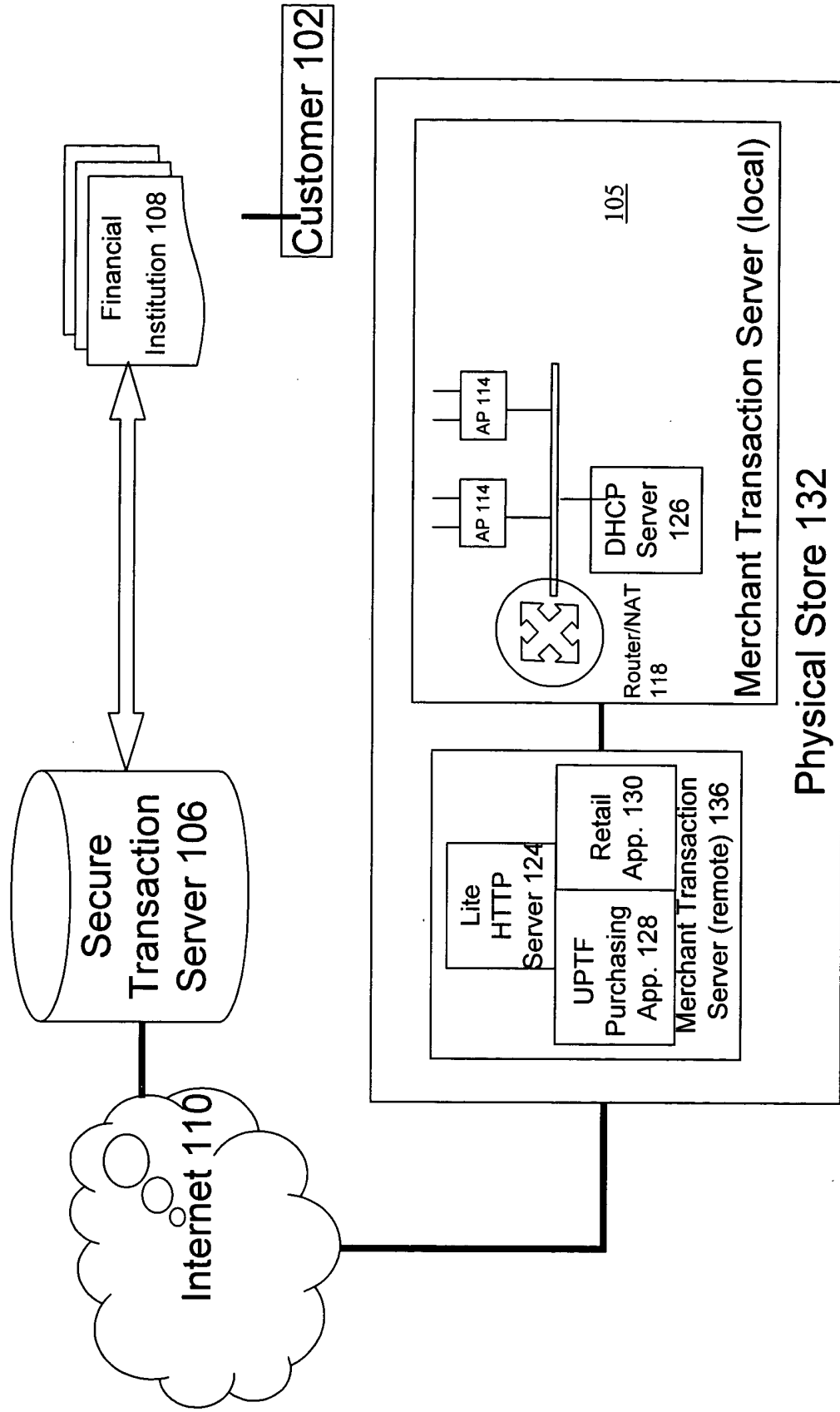


Figure 4

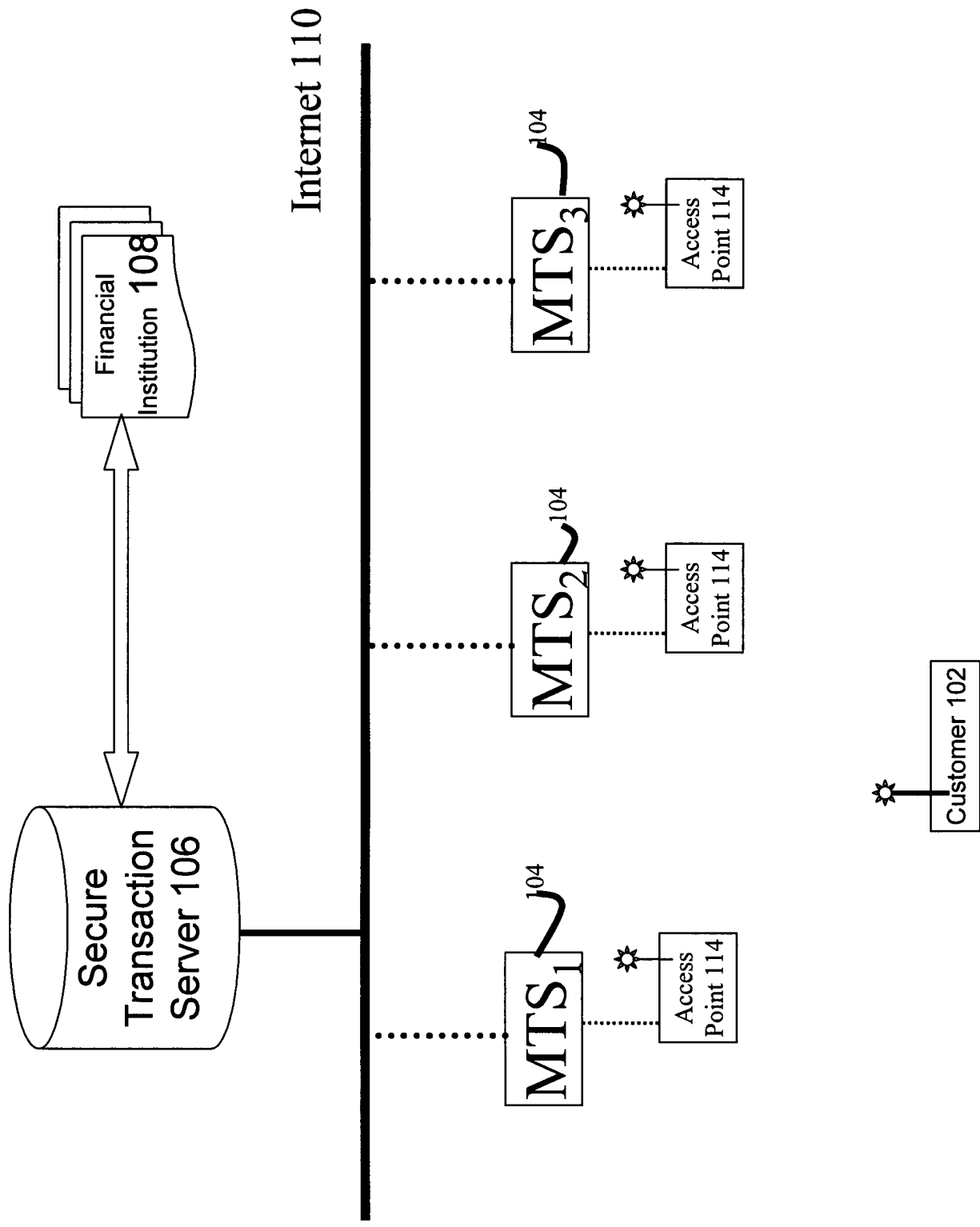


Figure 5

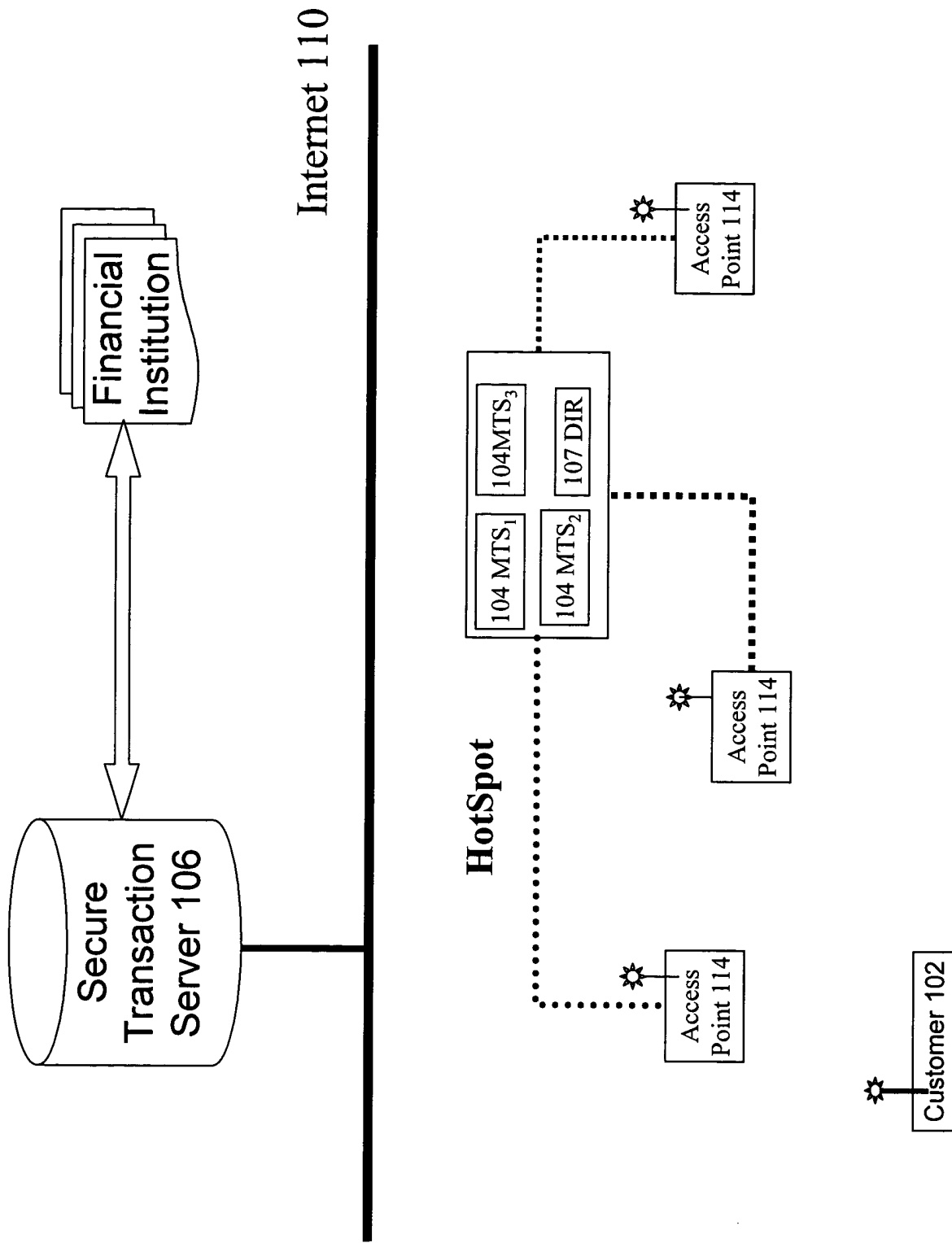


Figure 6

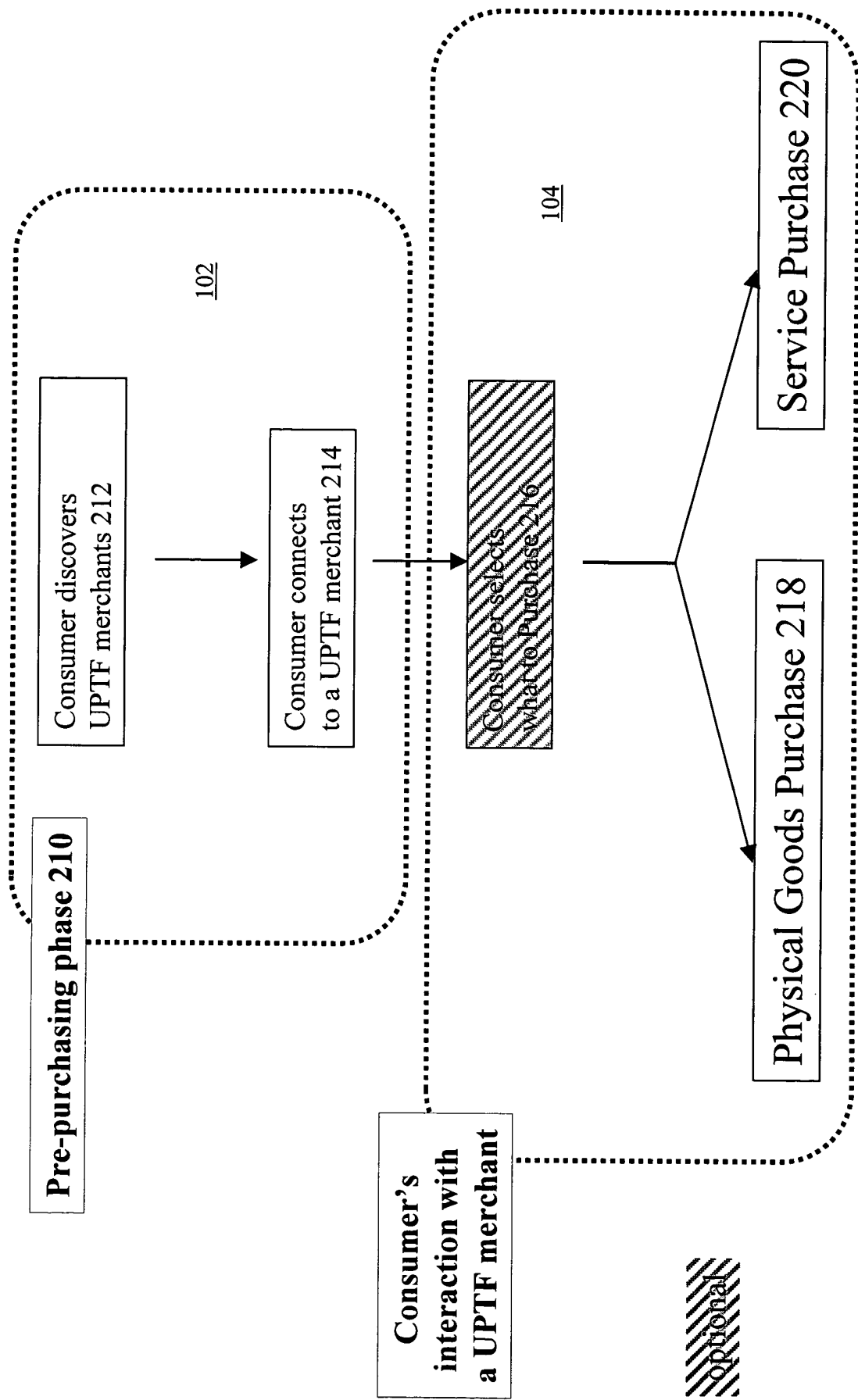
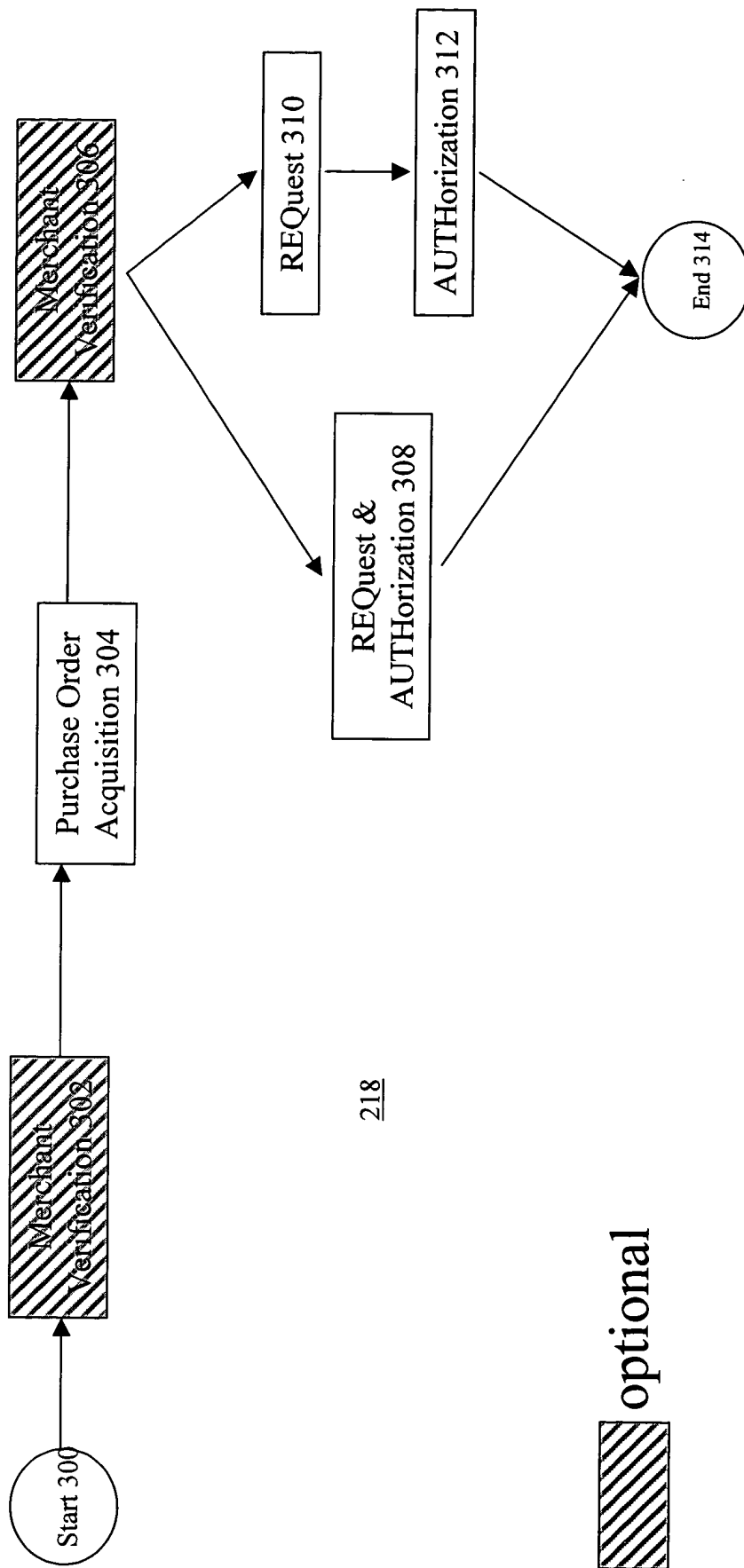


Figure 7



218


 optional

Figure 8

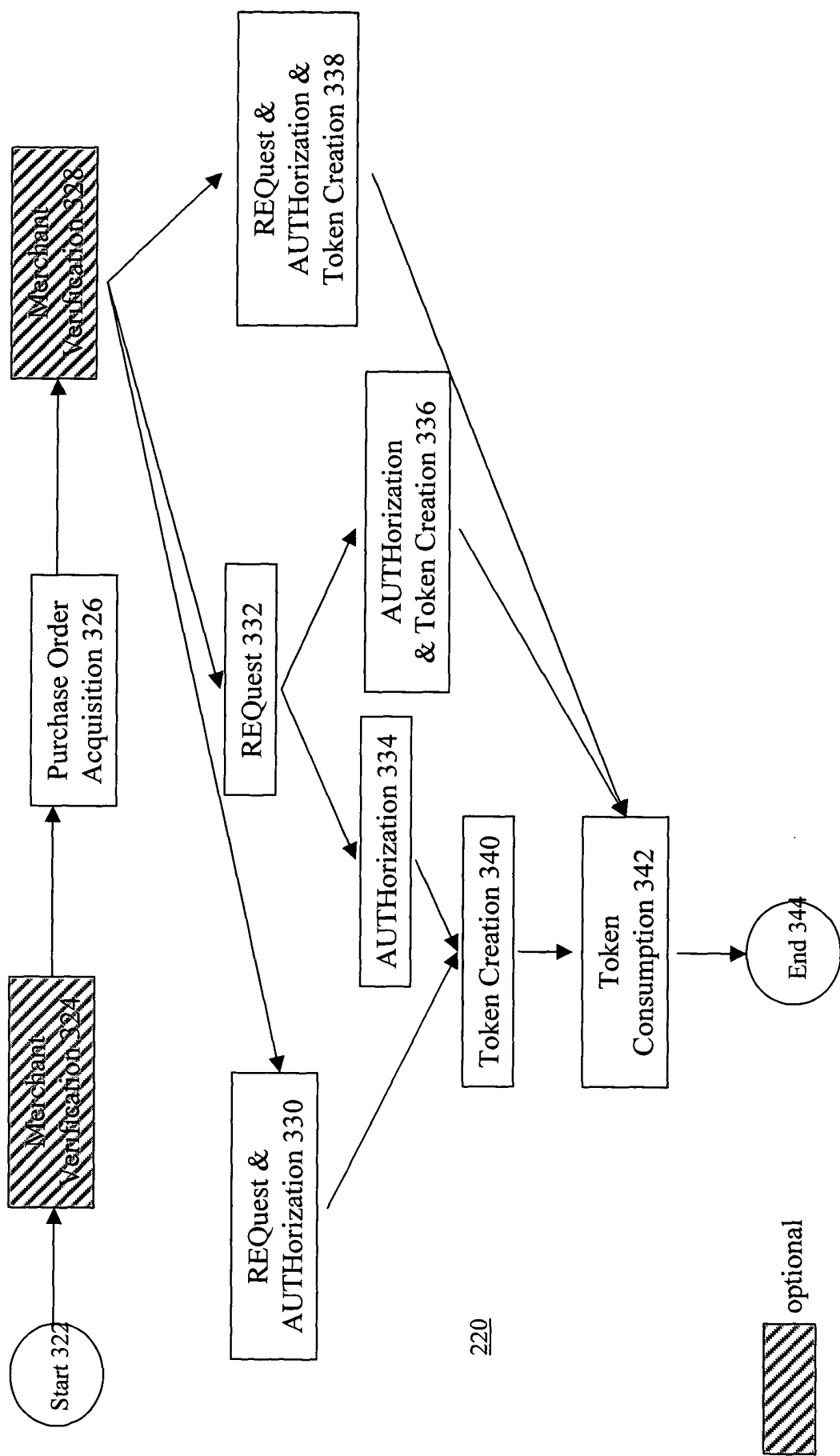


Figure 9

STS 106

Merchant 104

Consumer 102

350

Consumer requests a
Purchase Order
from merchant

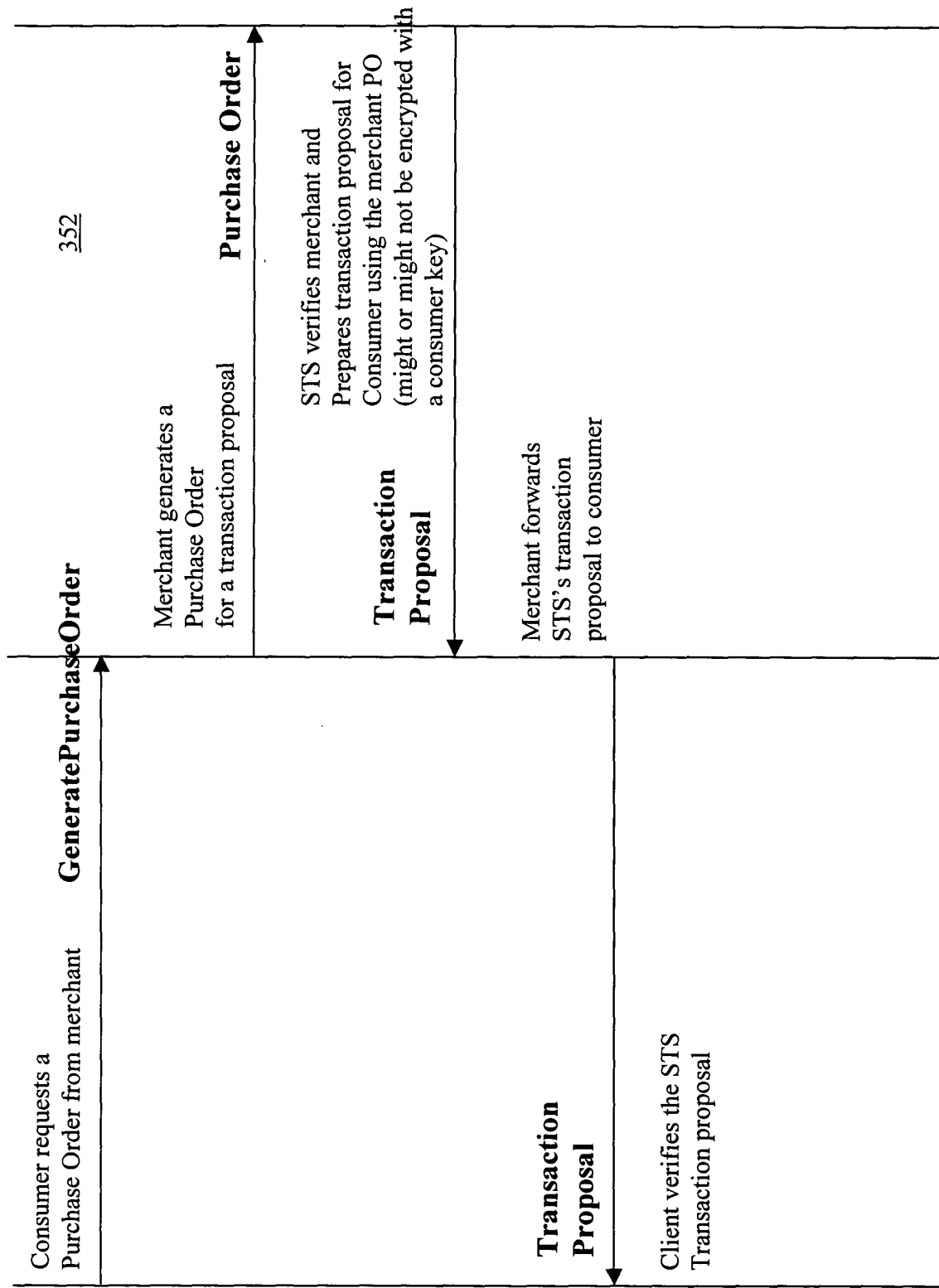
GeneratePurchaseOrder

Merchant generates a
Purchase Order
for a transaction proposal and
returns it to consumer

Purchase Order

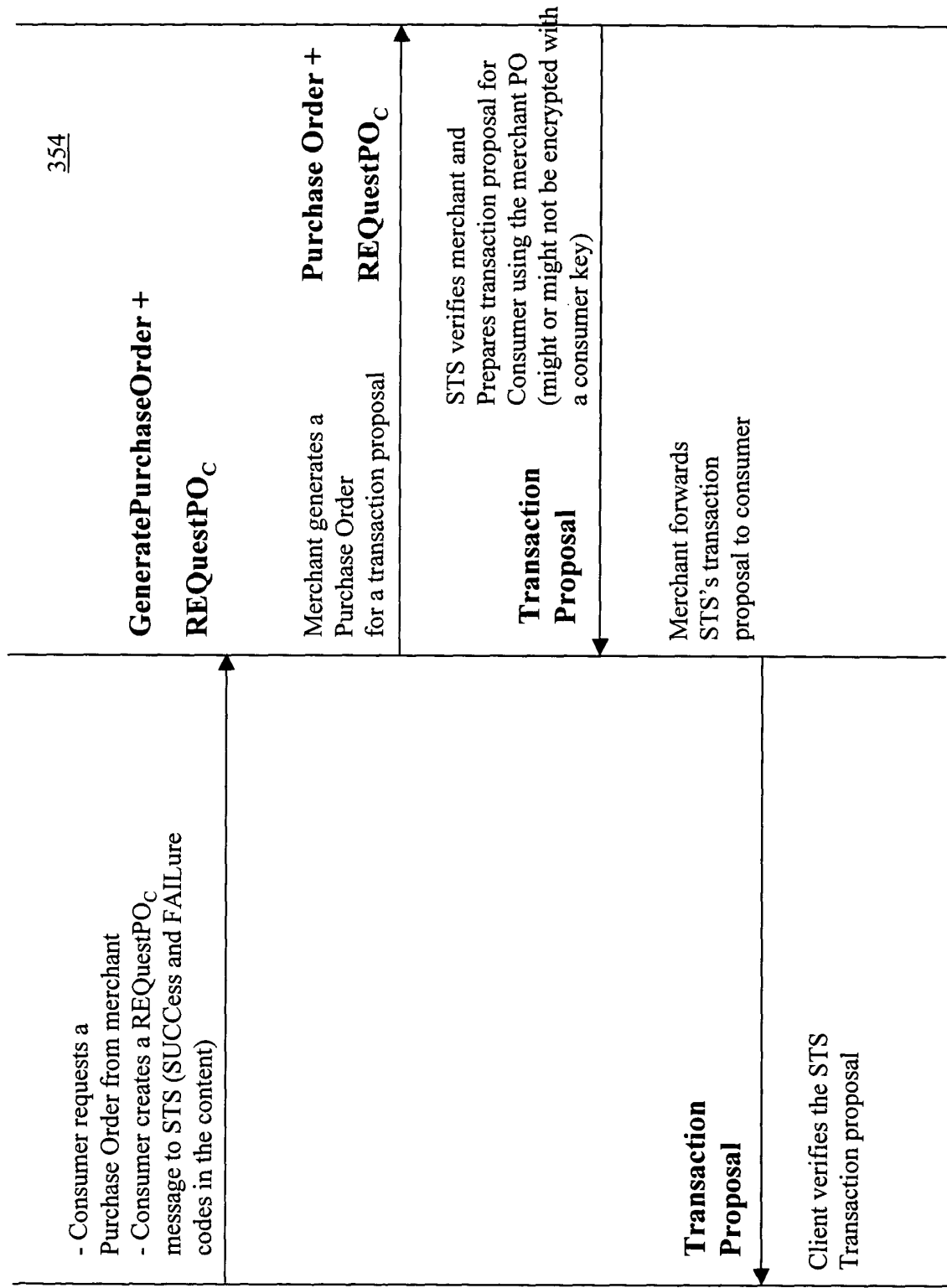
Purchase Order Acquisition - Direct Purchase Order Exchange

Figure 10



Purchase Order Acquisition – Purchase Order Request

Figure 11



Purchase Order Acquisition – Purchase Order Request from STS

Figure 12

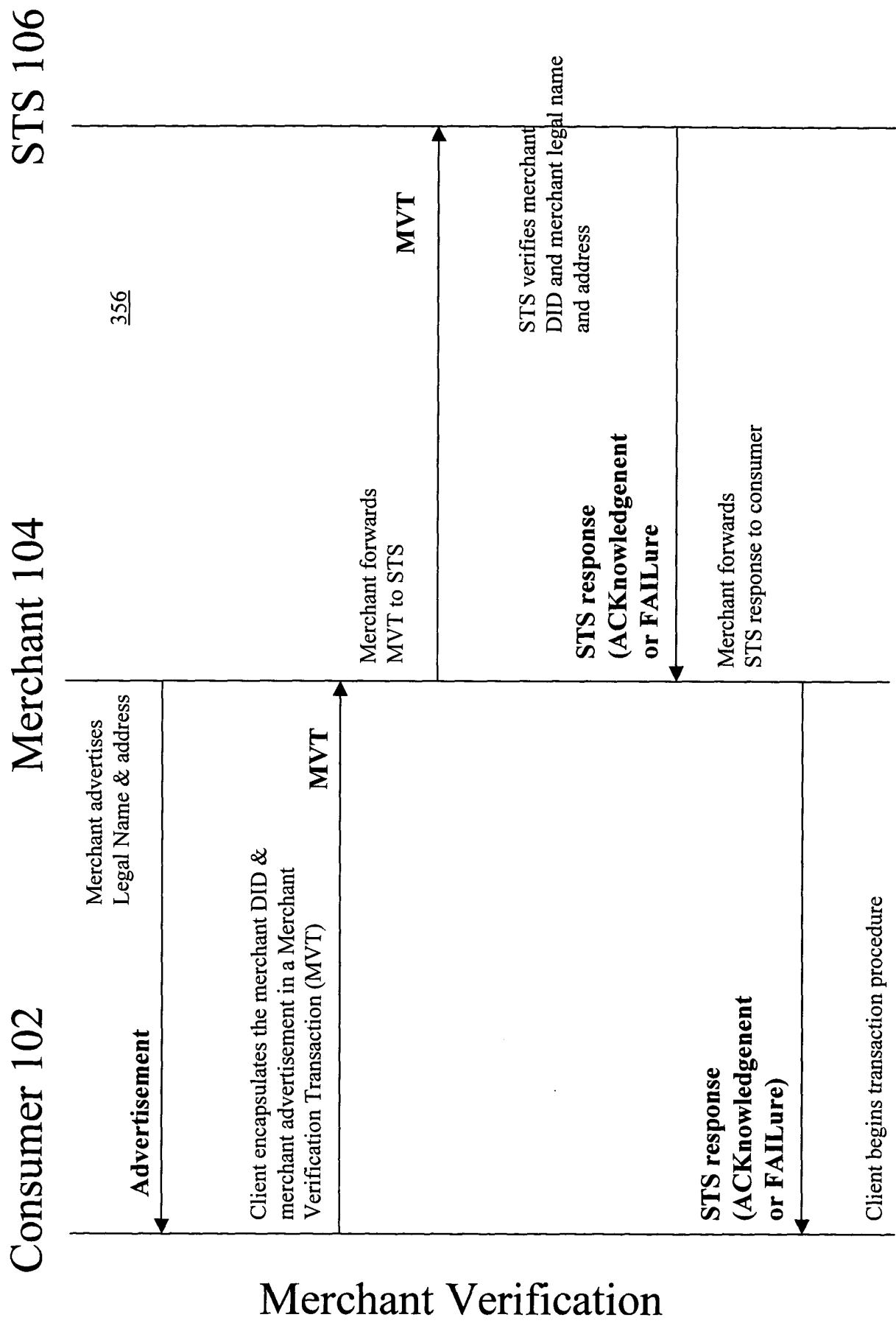


Figure 13

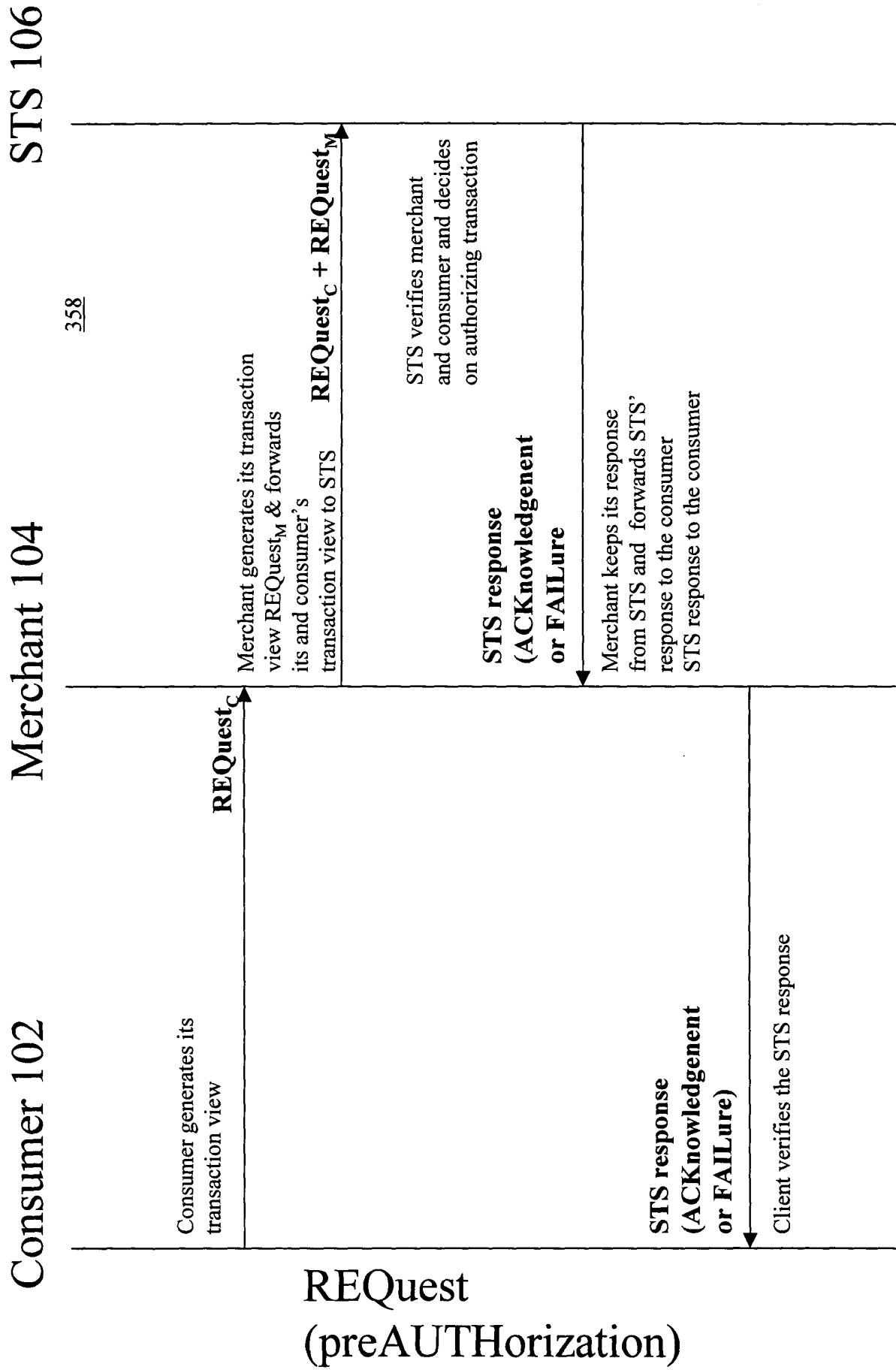
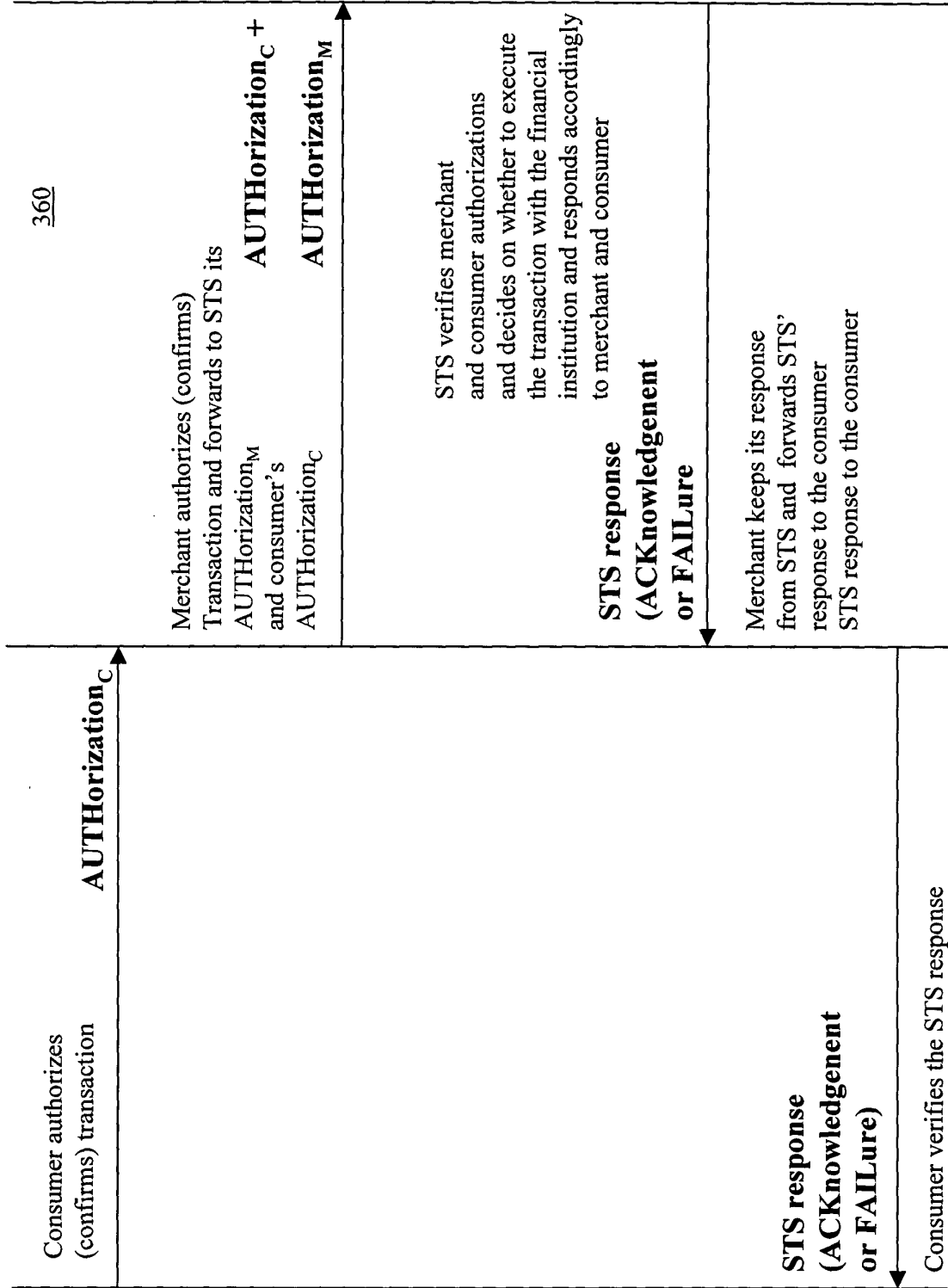


Figure 14

Consumer 102

Merchant 104

STS 106



AUTHORIZATION (includes payment)

Figure 15

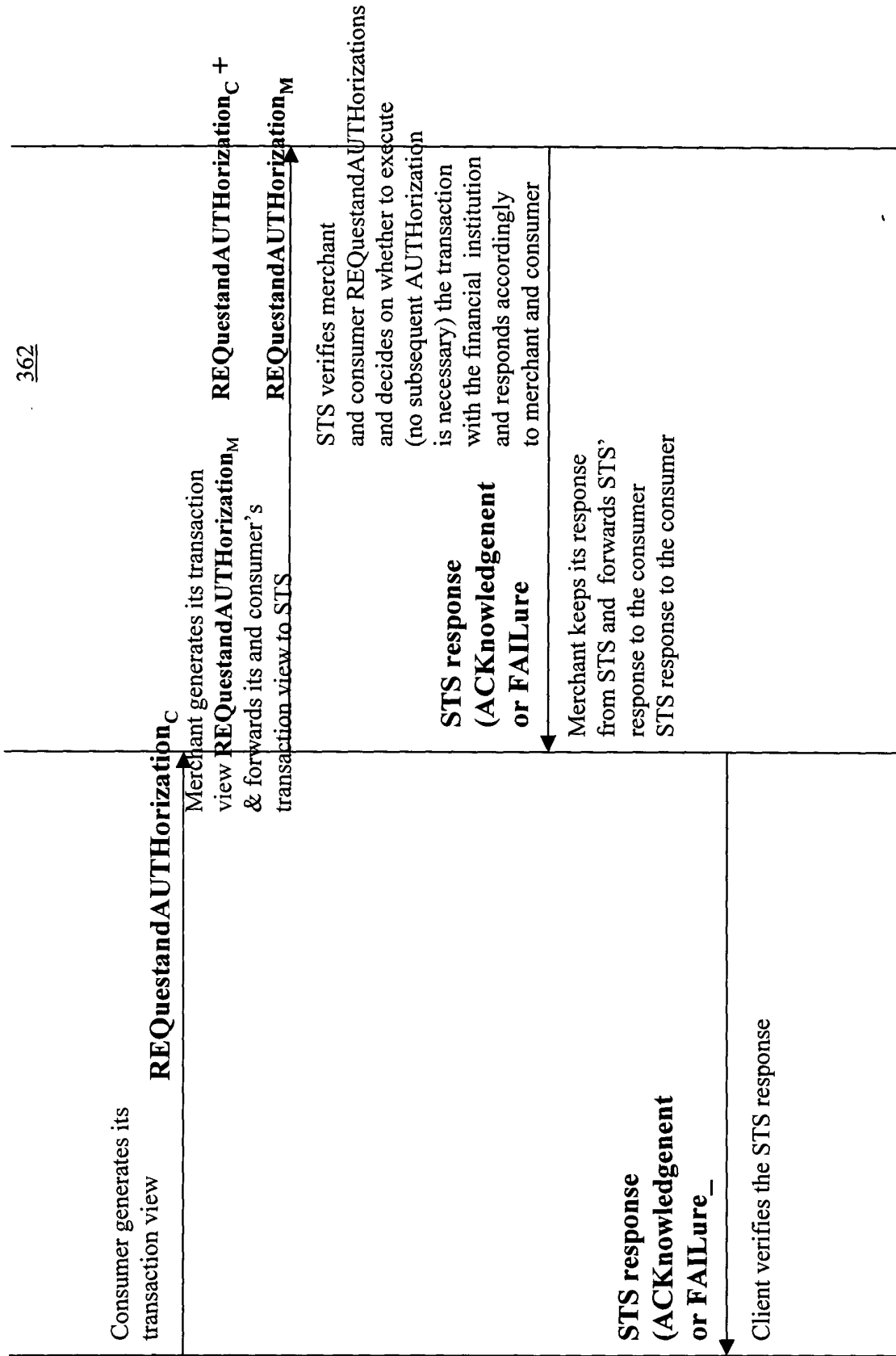
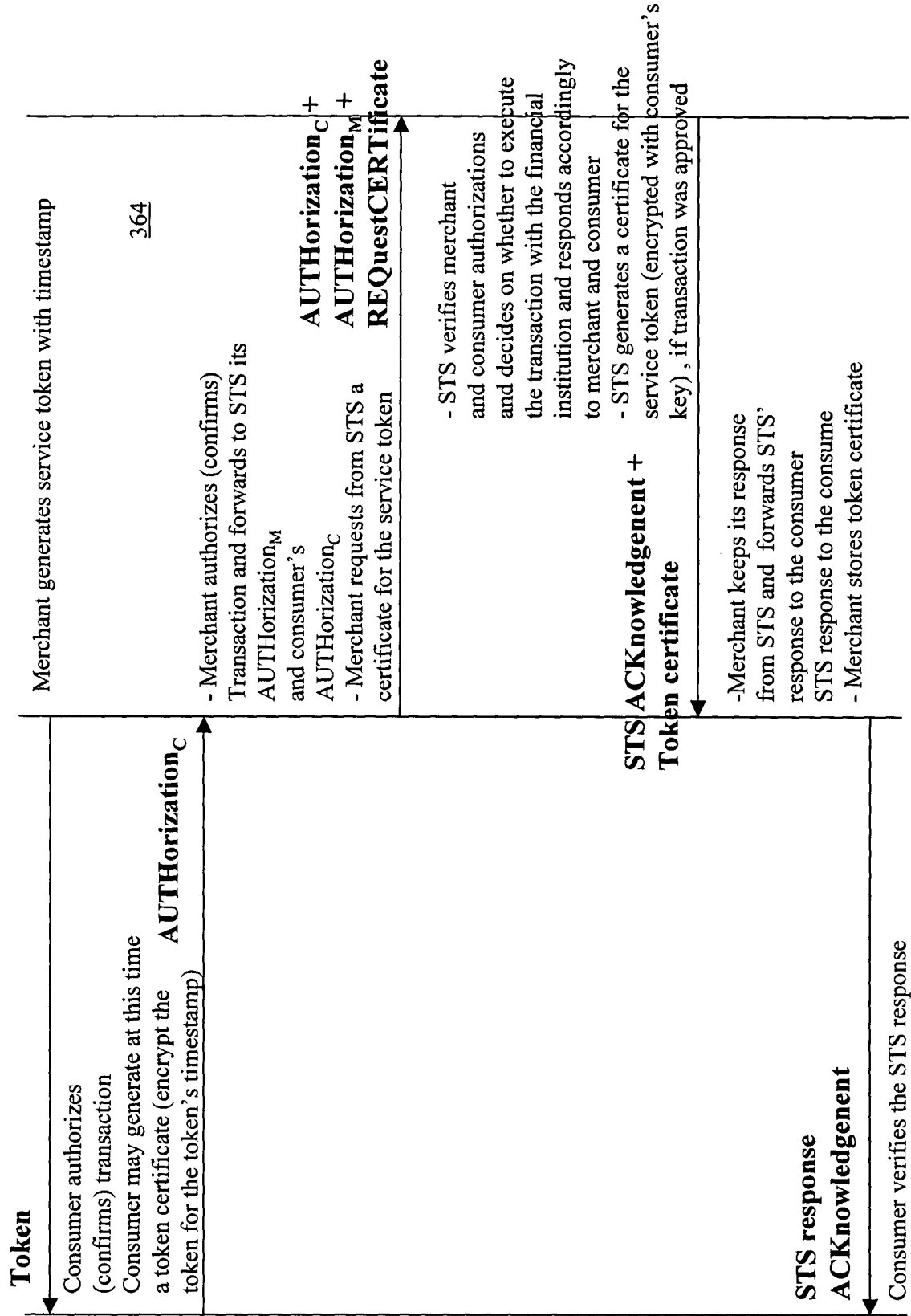
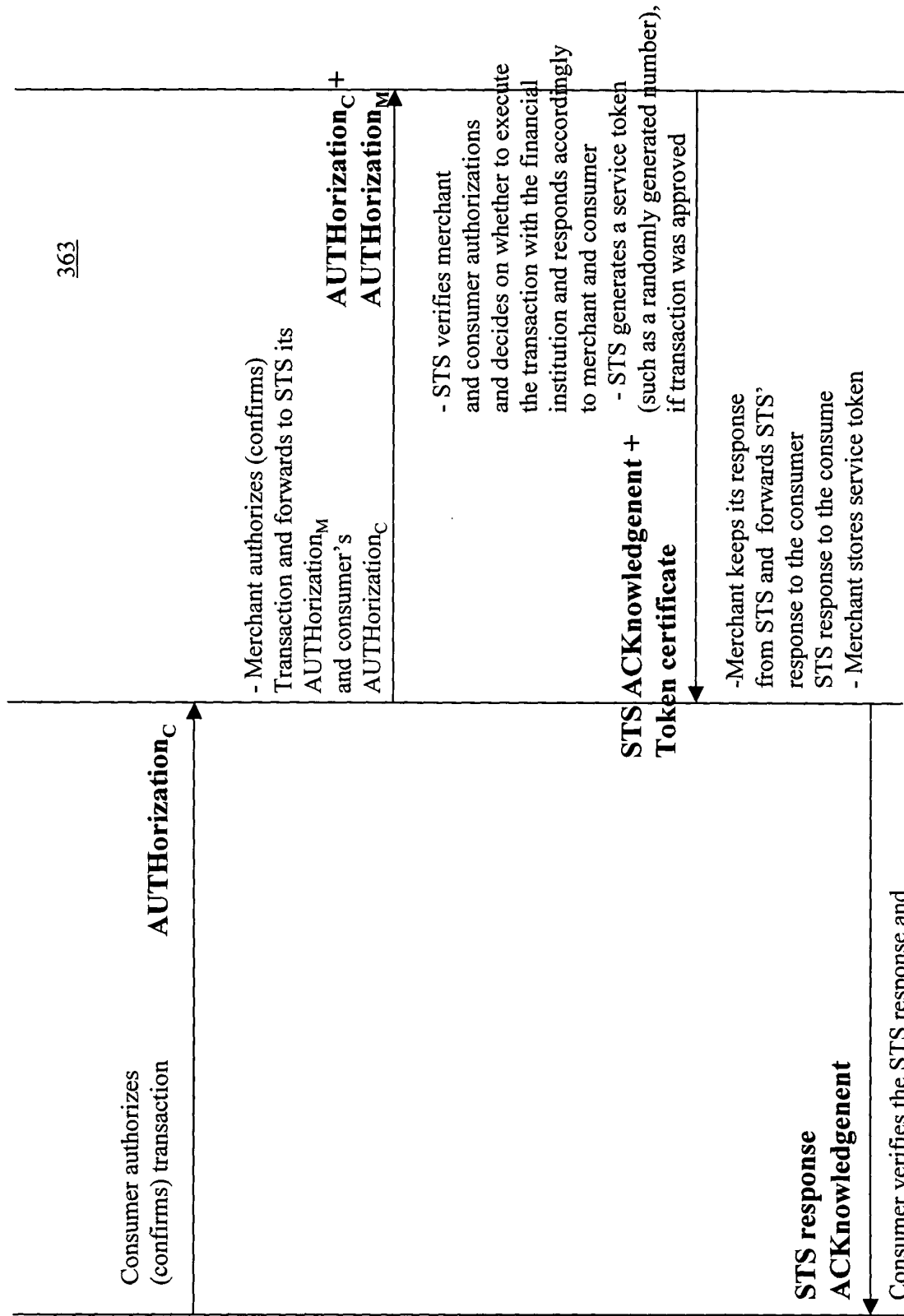


Figure 16



Token Creation and AUTHORIZATION

Figure 17



Token Creation and AUTHORIZATION

Figure 18

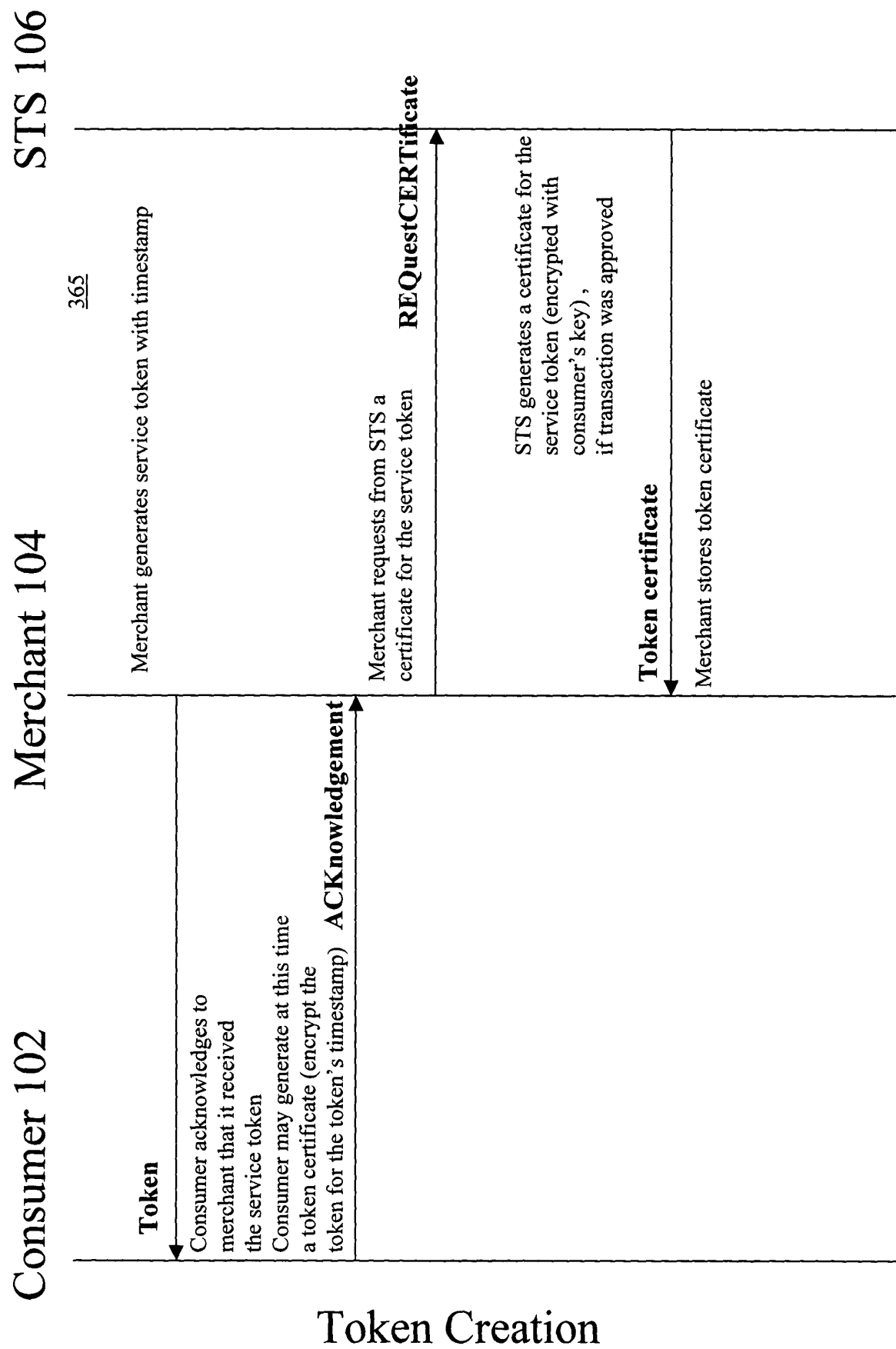
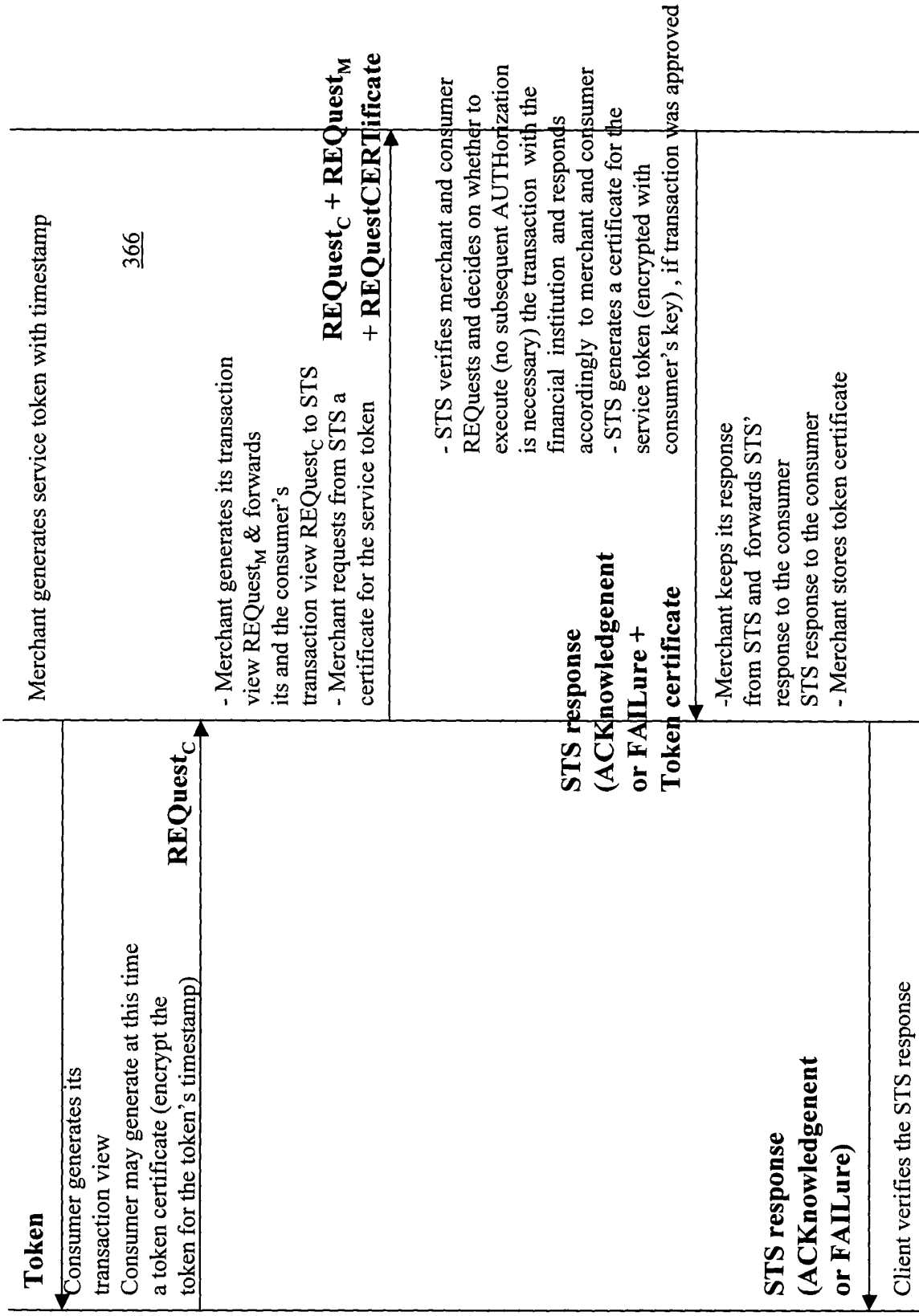


Figure 19



Single step REQuest, AUTHorization and Token Creation

Figure 20

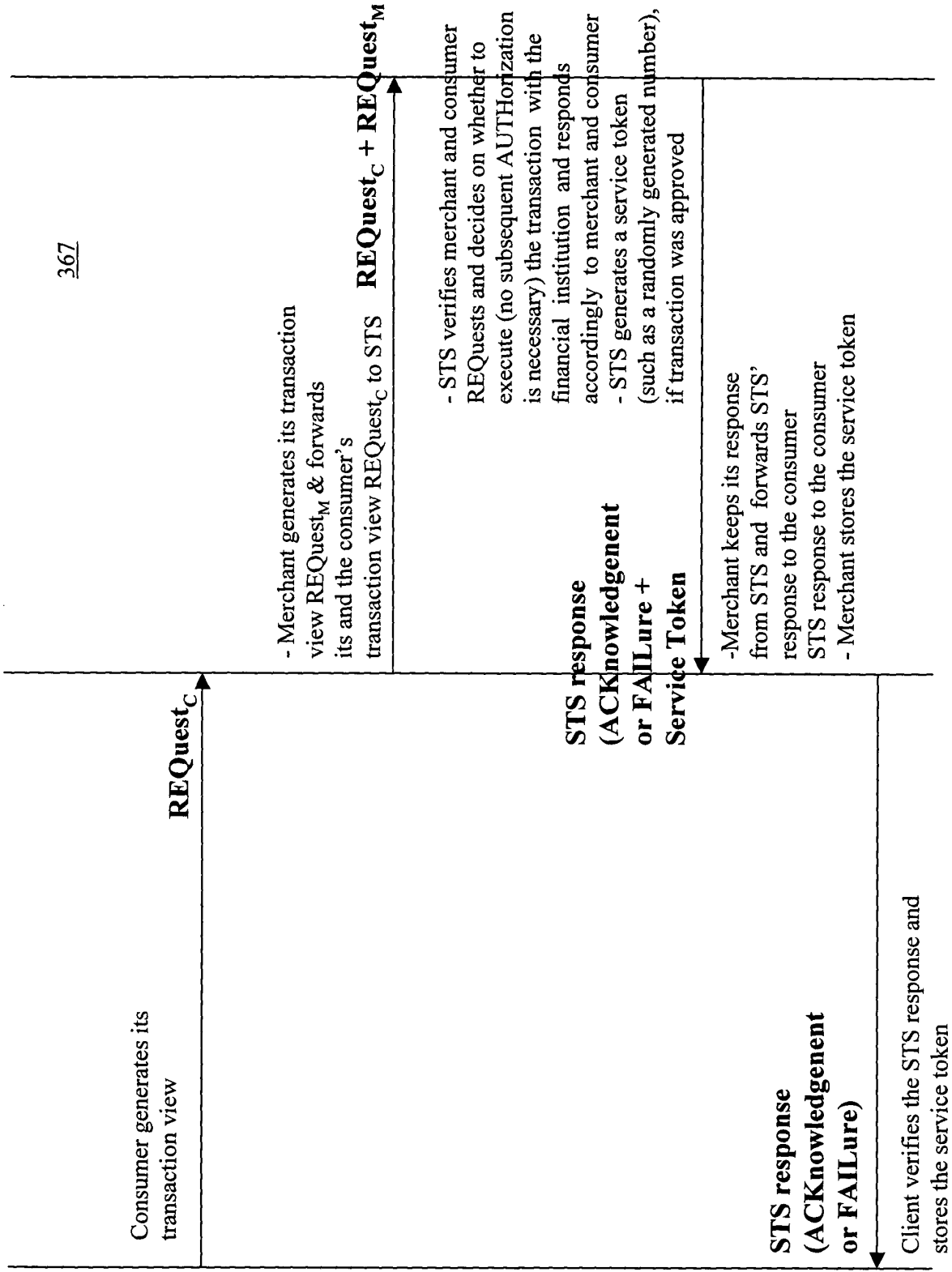


Figure 21

Single step REQuest, AUTHorization and Token Creation

Consumer 102

Merchant 104

STS 106

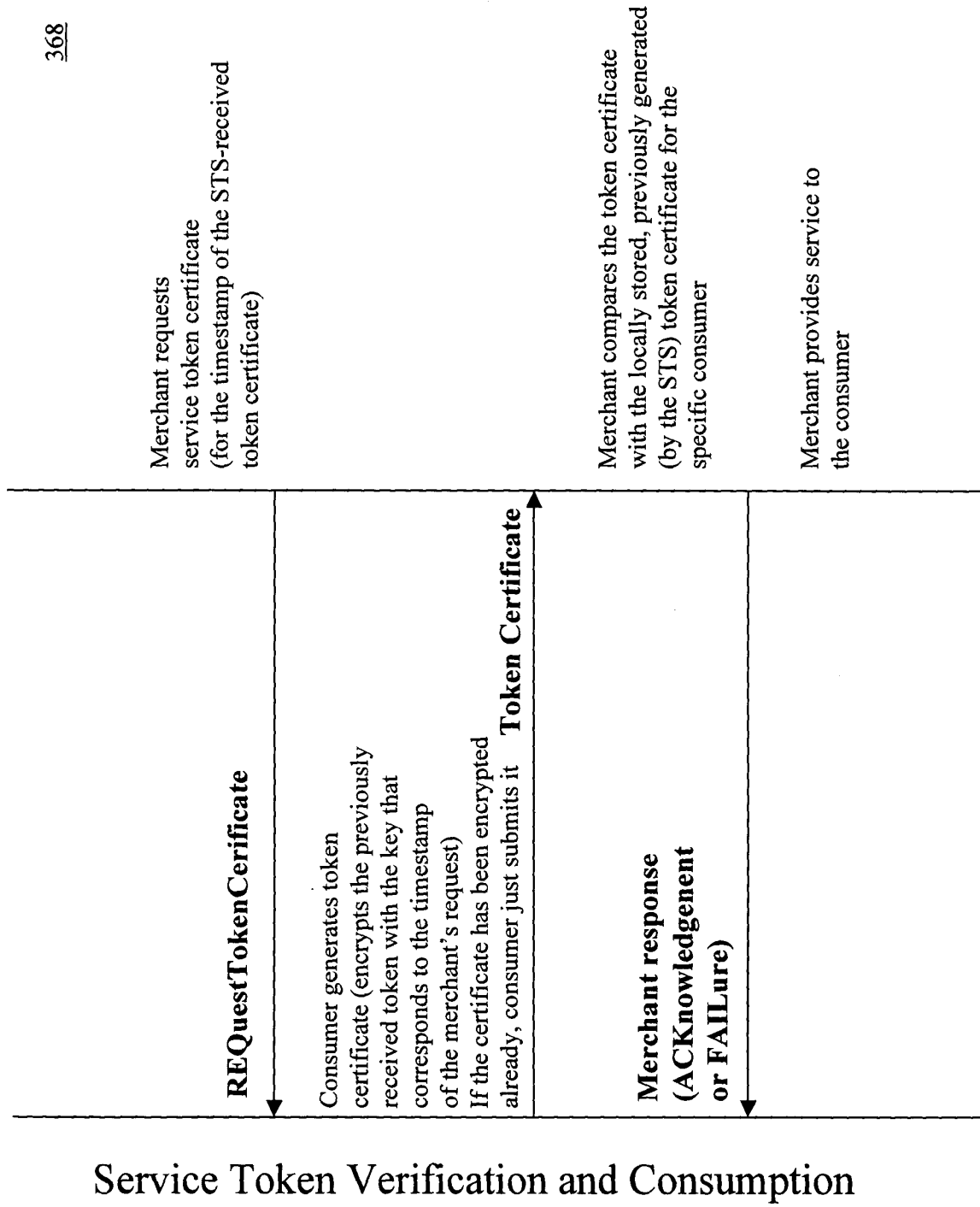
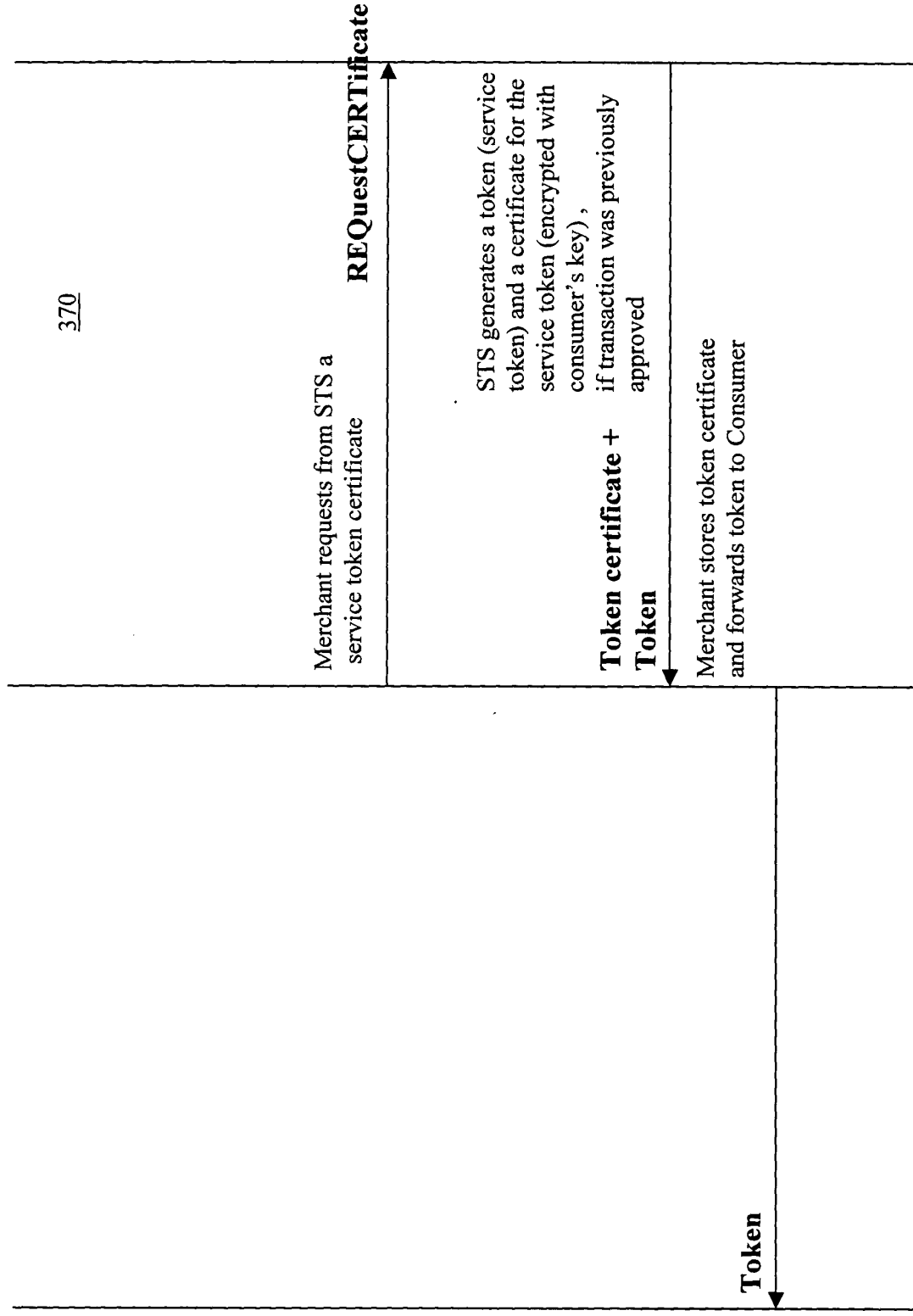


Figure 22

Consumer 102

Merchant 104

STS 106



Token Creation

Figure 23

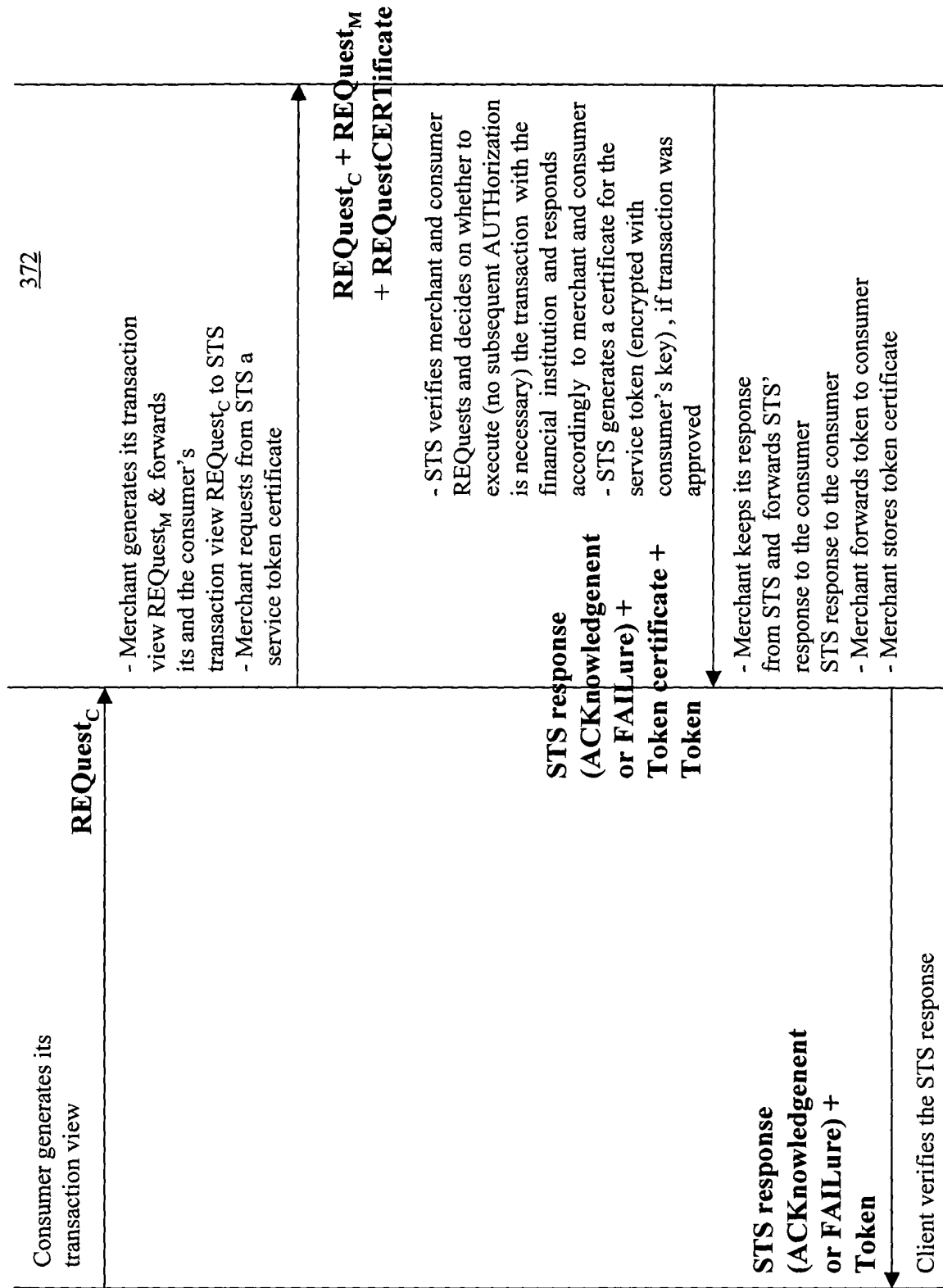


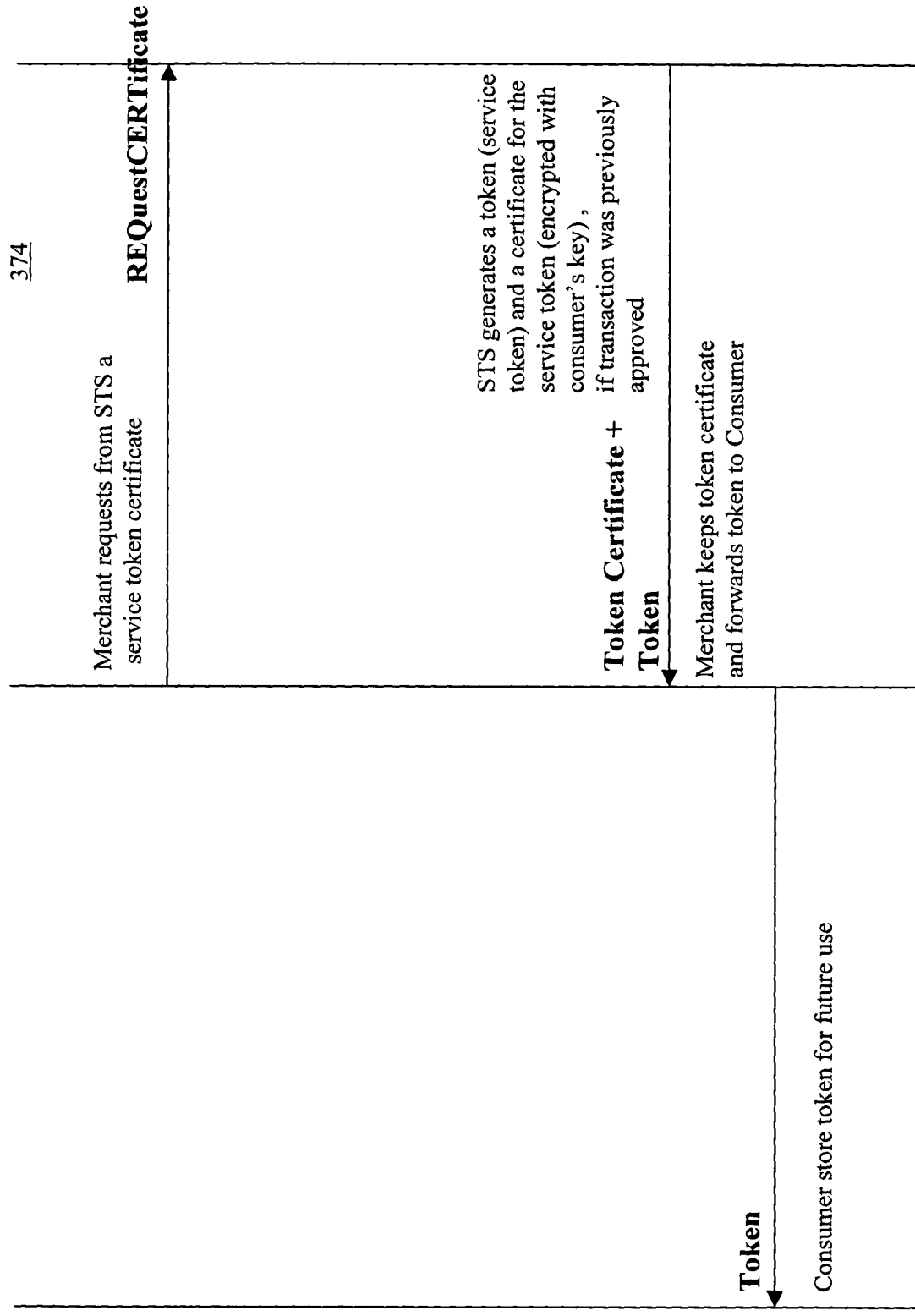
Figure 24

Single step REQuest, AUTHorization and Token Creation
(for token certificate verification by STS)

Consumer 102

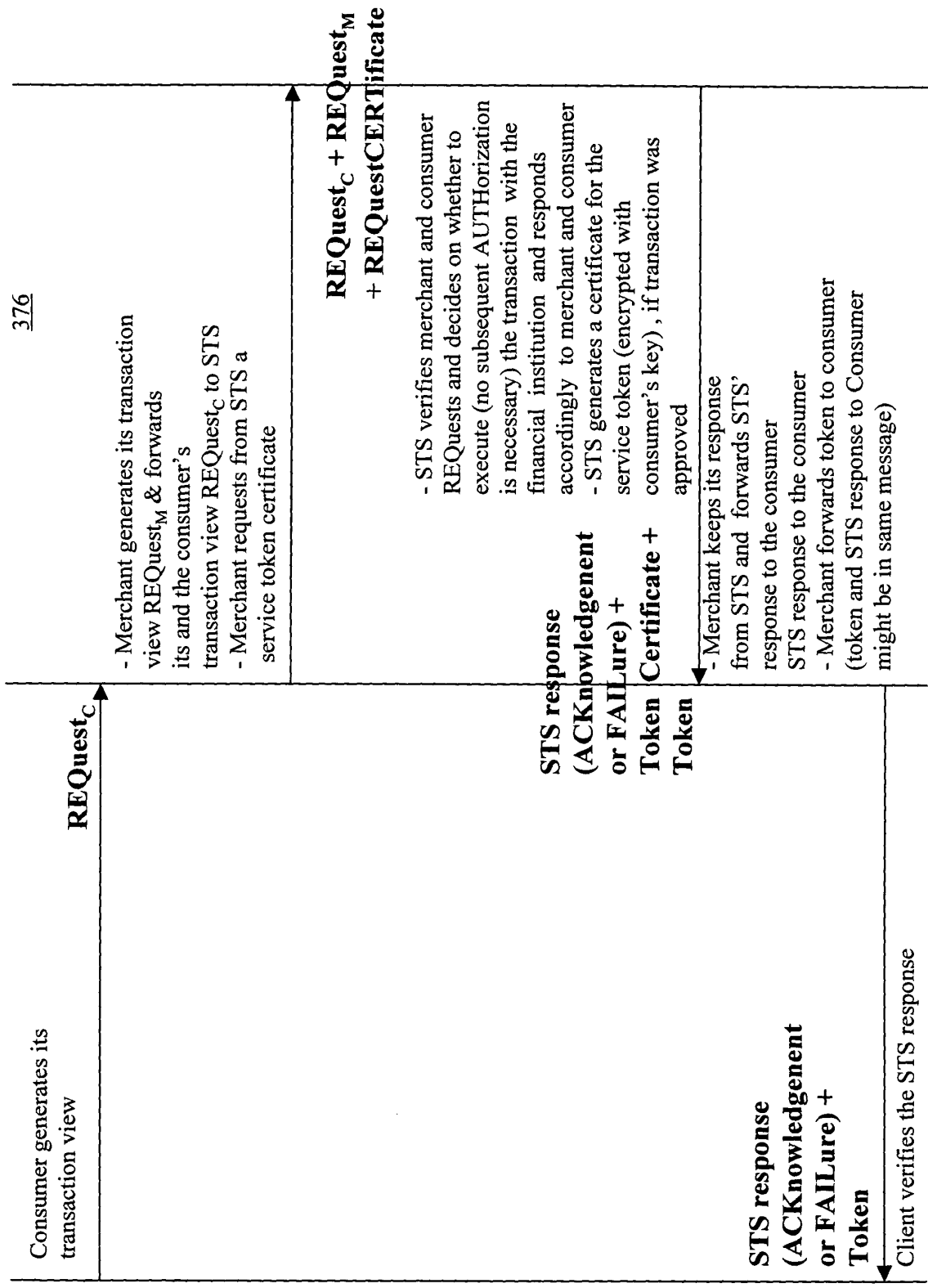
Merchant 104

STS 106



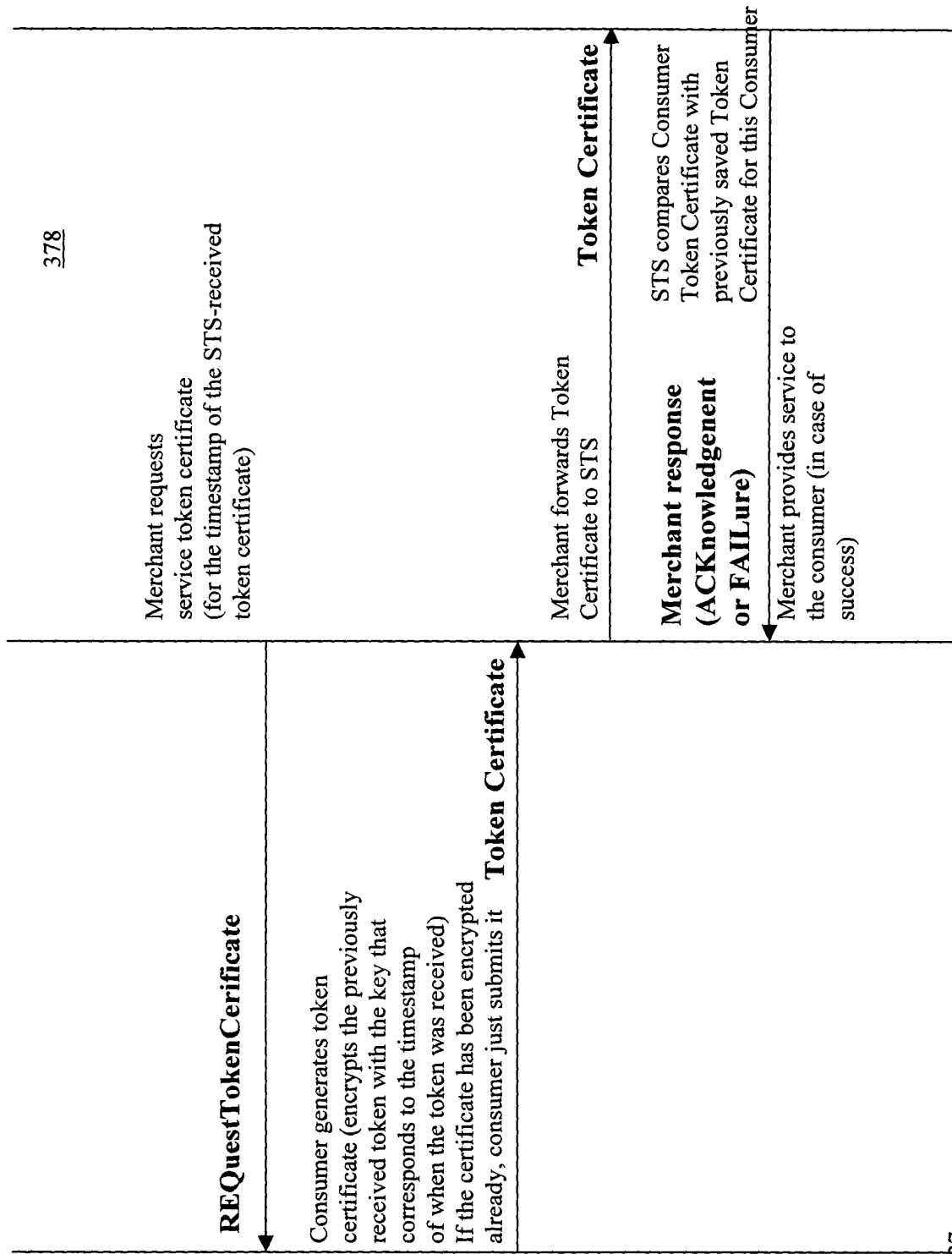
Token Creation
(for token certificate verification by STS)

Figure 25



Single step REQuest, AUTHorization and Token Creation
(for token certificate verification by STS)

Figure 26



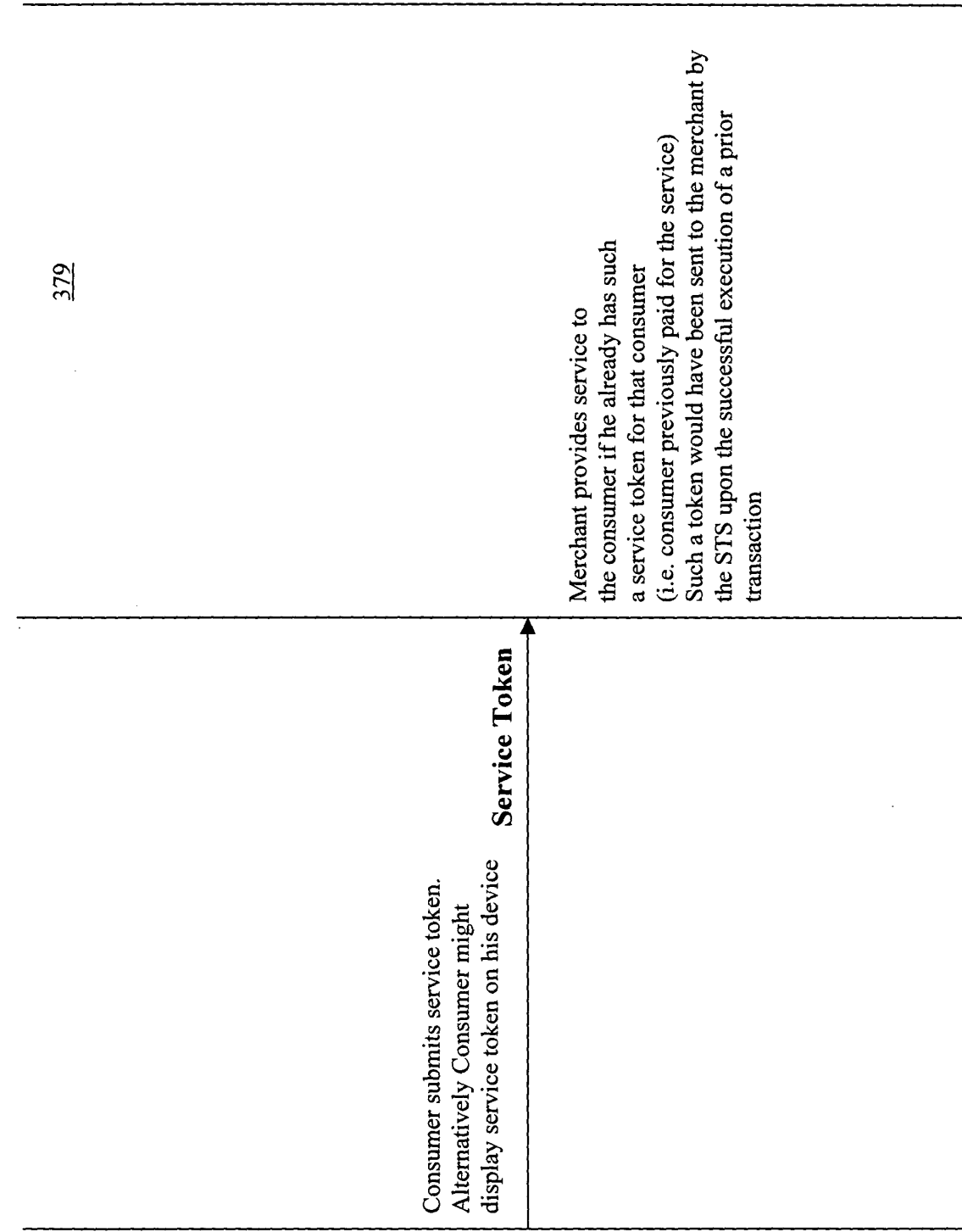
Service Token Consumption (Verification by STS)

Figure 27

Consumer 102

Merchant 104

STS 106



Service Token Consumption (Verification by Merchant only)

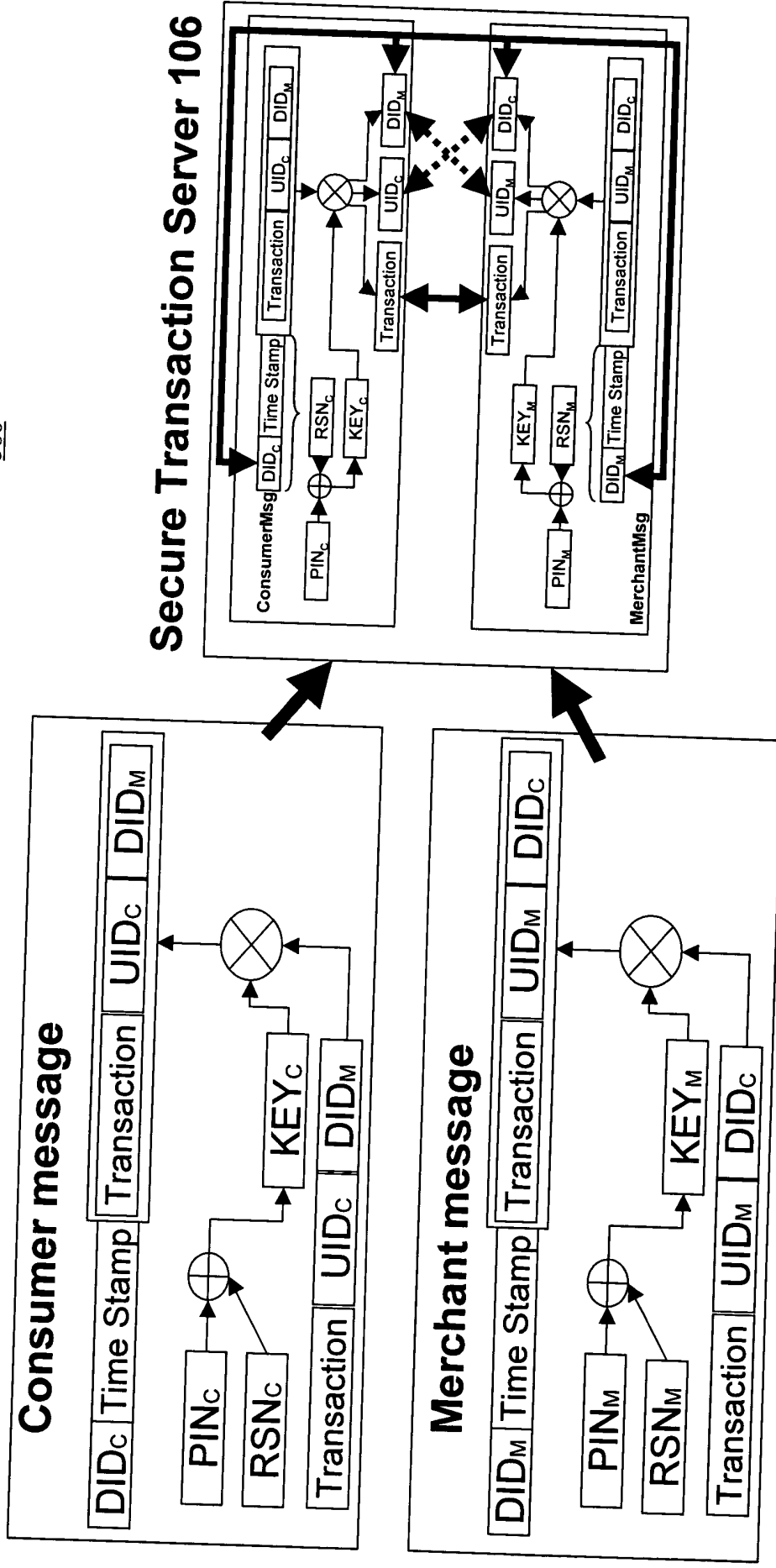


Figure 29

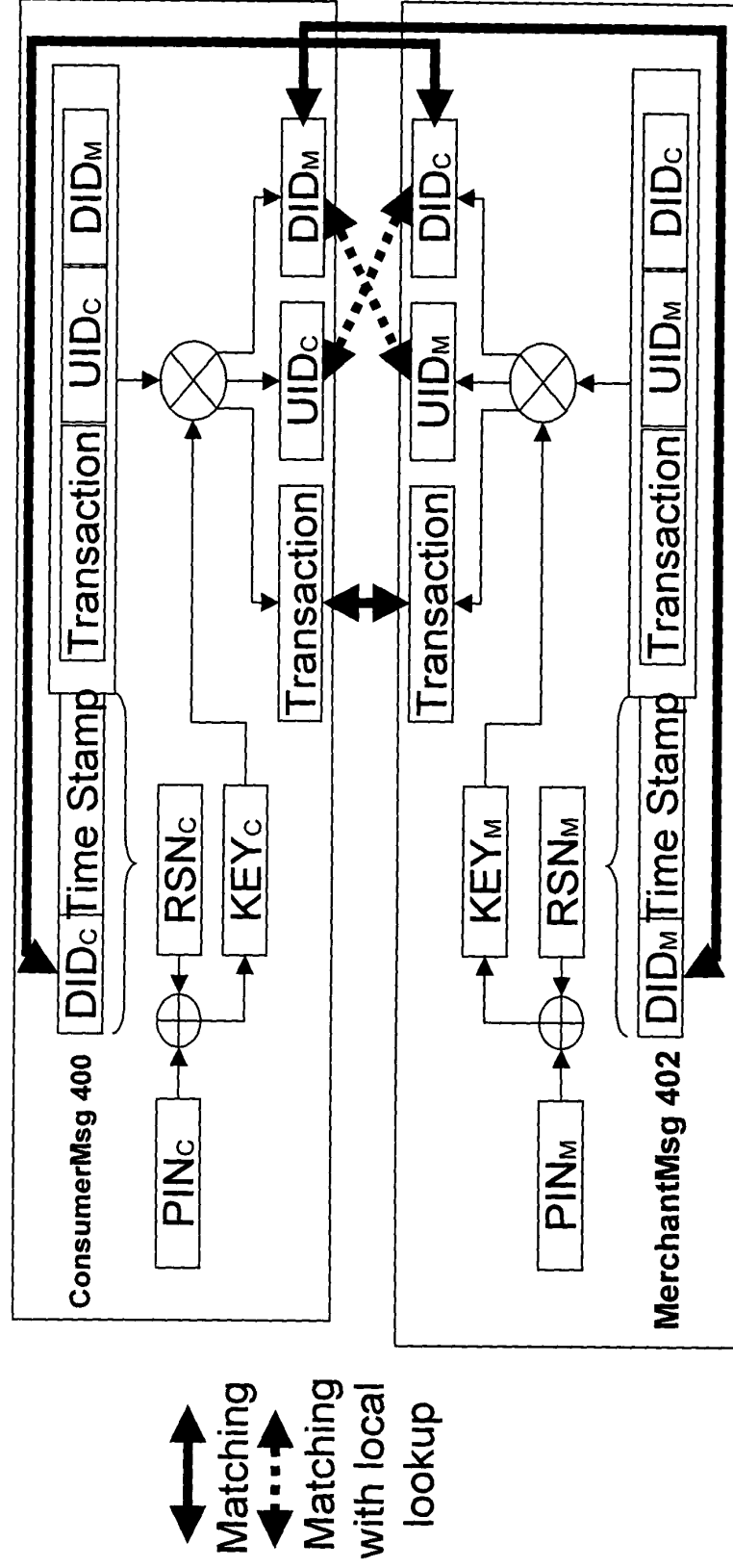
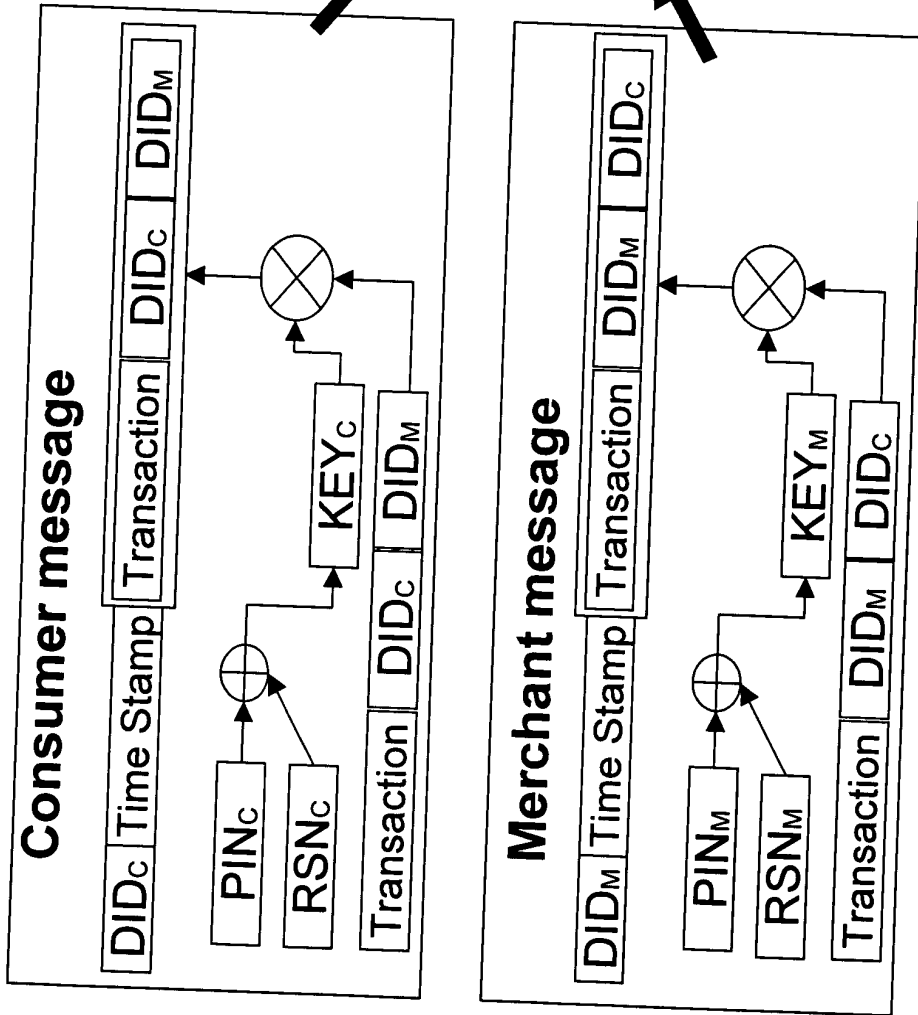


Figure 30



Secure Transaction Server 106

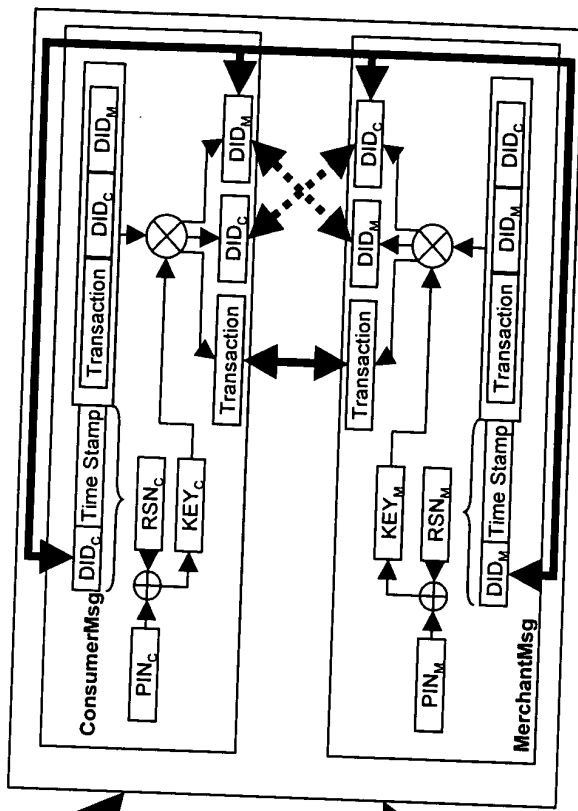


Figure 31

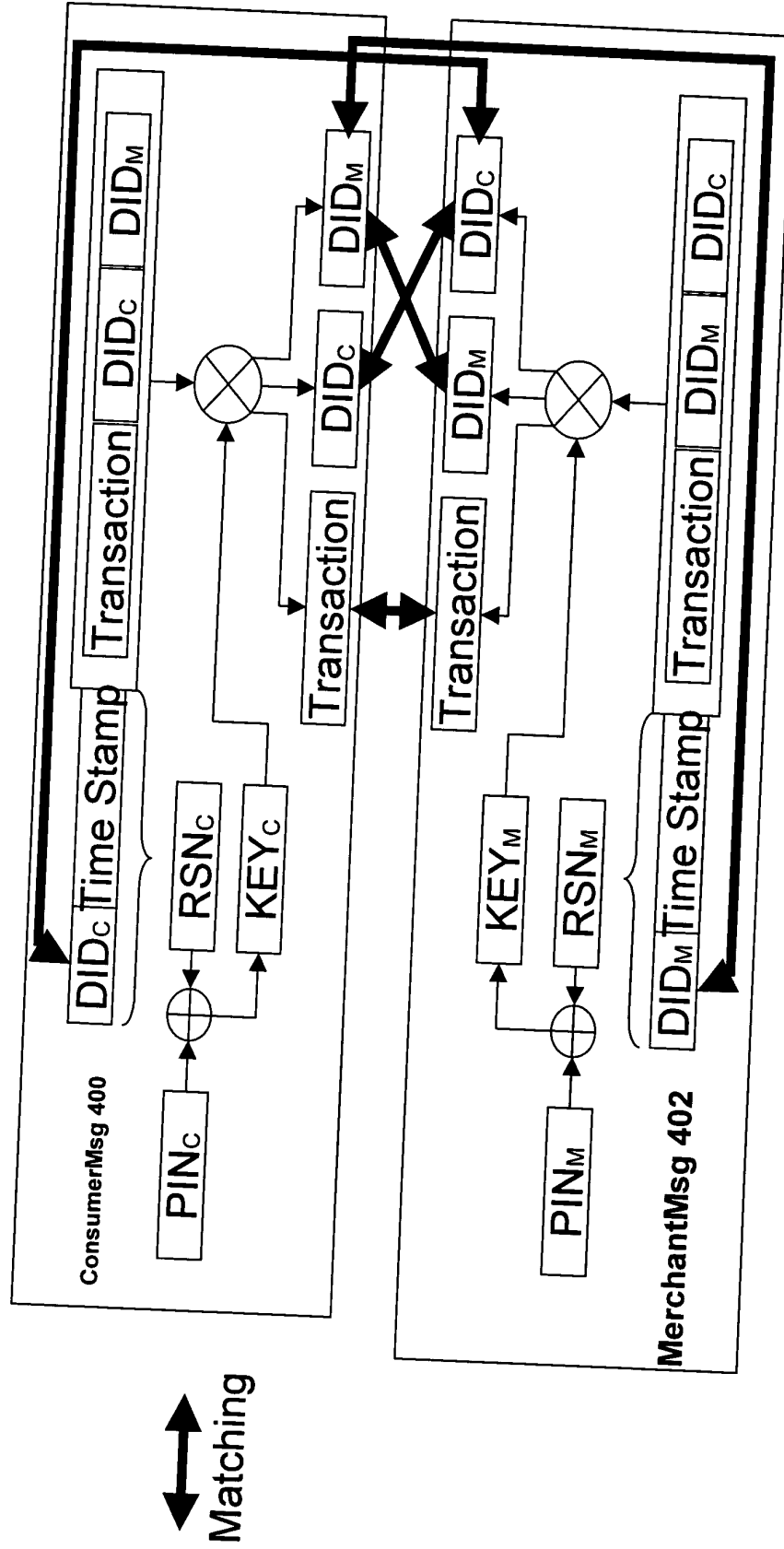


Figure 32

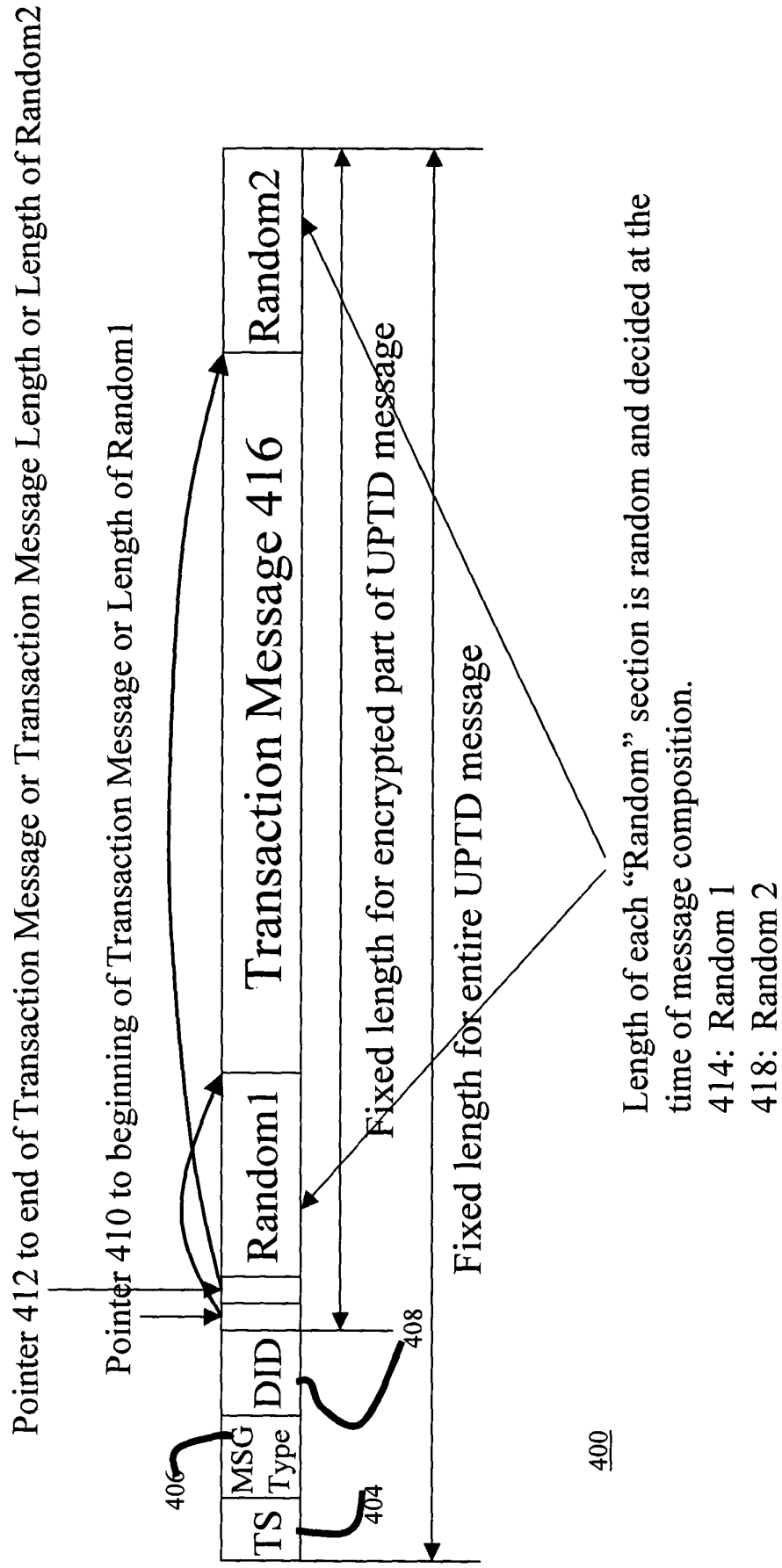


Figure 33

A	B	C	D	E	F	G
---	---	---	---	---	---	---

A: Message type (REQuest or AUTHORIZATION; REQuest in this case)

B: Success Code for response to this message

C: Failure Code for response to this message

D: DID of message sending device

E: DID of other transacting party's device

F: Transaction amount or some other agreed transaction description

G: Friendly name of account to be used to pay D's user, amount E

F is optional and might be specified in AUTHORIZATION message

Figure 34

A	B	C	D	E	F
---	---	---	---	---	---

A: Message type (REQuest or AUTHorization; REQuest in this case)

B: Success Code for response to this message

C: Failure Code for response to this message

D: DID of message sending device

E: DID of other transacting party's device

F: Transaction amount or some other agreed transaction description

Figure 35

A	B	C
---	---	---

A: The Success or Failure code indicated by Payer depending on whether the REQuest was successful or not

B: A randomly generated number to be used to refer to the transaction for the remainder of the change

C: Payer's account listing

Figure 36

A	B
---	---

A: The Success or Failure code indicated by Payer depending on whether the REQuest was successful or not

B: A randomly generated number to be used to refer to the transaction for the remainder of the exchange

Figure 37

A	B	C	D	E
---	---	---	---	---

- A: Message type (REQuest or AUTHorization; AUTHorization in this case)
B: Success Code for response to this message
C: Failure Code for response to this message
D: A reference to the transaction been authorized; a previously STS-generated reference is used
E: Optional to reference payer's account if not previously specified

Figure 38

A	B	C	D	E
---	---	---	---	---

- A: Message type (REQuest or AUTHorization; AUTHorization in this case)
B: Success Code for response to this message
C: Failure Code for response to this message
D: A reference to the transaction been authorized; a previously STS-generated reference is used
E: Optional to reference payee's account if not previously specified

Figure 39

A	B
---	---

- A: The Success or Failure code indicated by Payer depending on whether the Authorization was successful or not
- B: An optional additional description, for example a service token value (receipt)

Figure 40

A	B
---	---

- A: The Success or Failure code indicated by Payee depending on whether the Authorization was successful or not
- B: An optional additional description, for example a service token value (receipt)

Figure 41

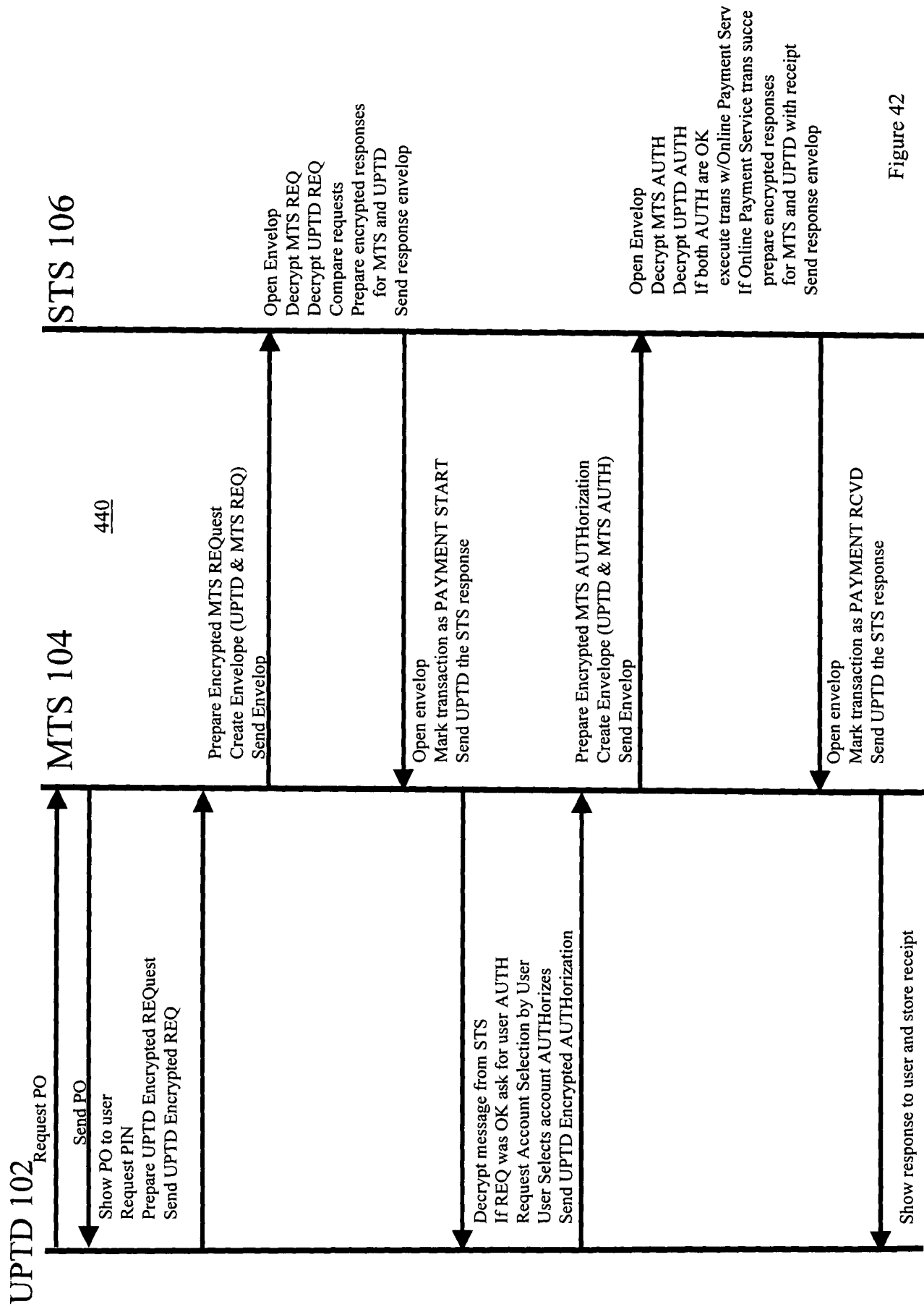


Figure 42

- 1 Consumer Requests Purchase Order (PO)
- 2 Consumer Receives PO
- 3 Consumer REQUESTS transaction (consumer enters PIN)
- 4 MTS sends MTS REQ and consumer REQ
- 5 STS requests from Online Payment Service the account listing for consumer
- 6 STS receives Online Payment Service accounts listing
- 7 STS Sends response to REQ with accounts for consumer
- 8 MTS forwards STS response to REQ to consumer
- 9 Consumer AUTHORIZES transaction (consumer selects account)
- 10 MTS sends MTS AUTH and consumer AUTH
- 11 STS sends transaction to Online Payment Service
- 12 STS receives Online Payment Service response
- 13 STS sends response to AUTH
- 14 MTS forward STS response to AUTH to consumer
(consumer sees notification of success on his display)

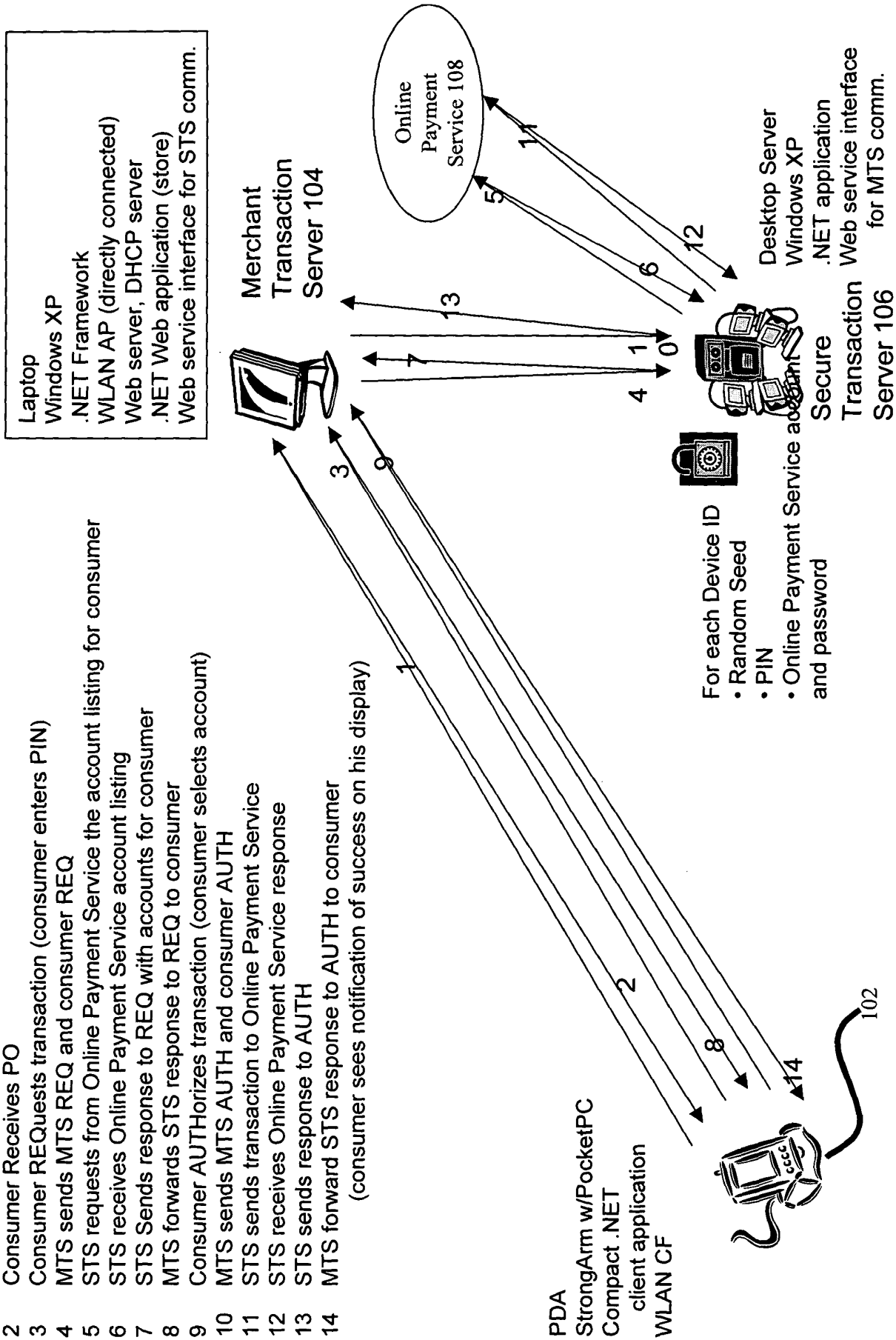


Figure 43

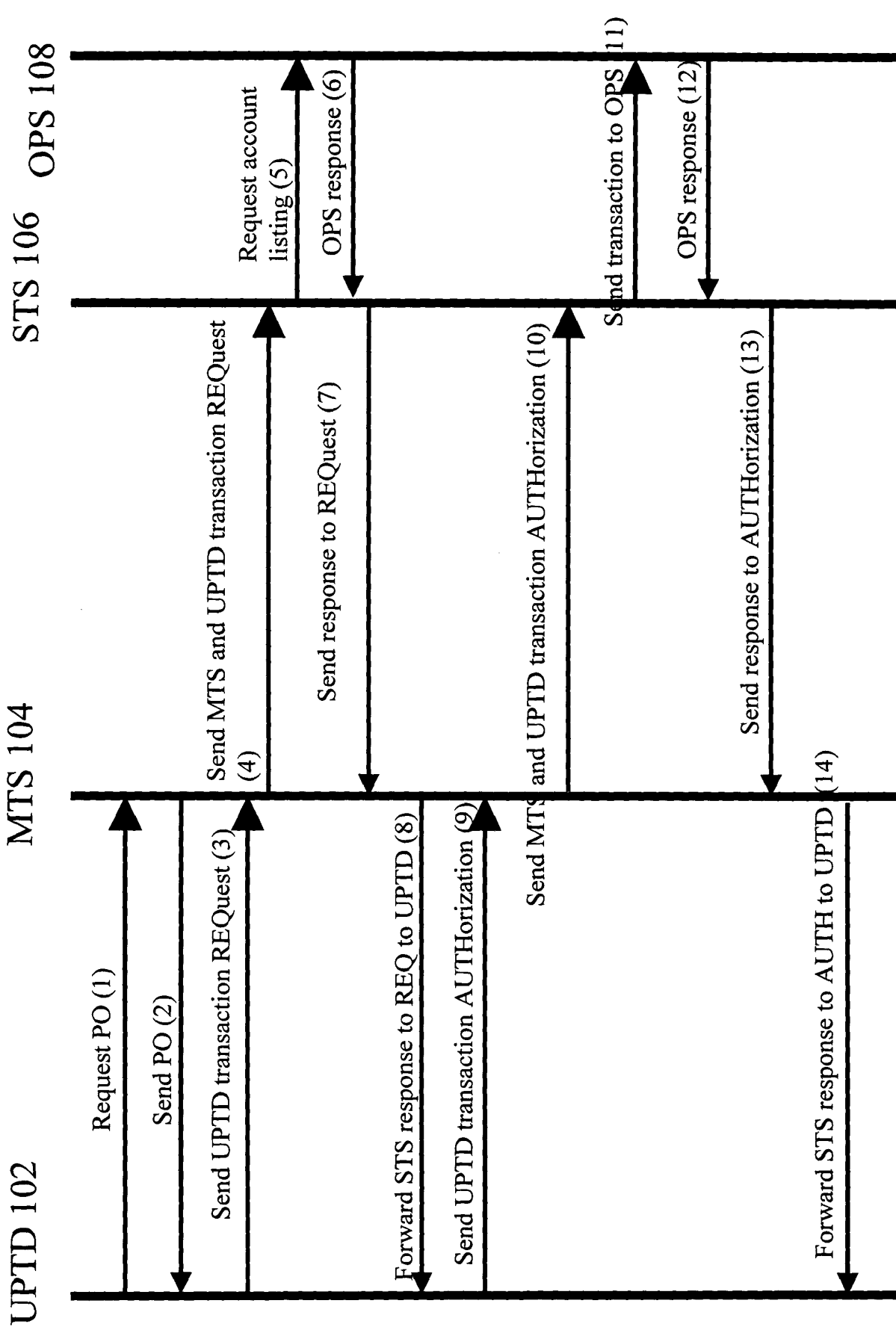


Figure 44

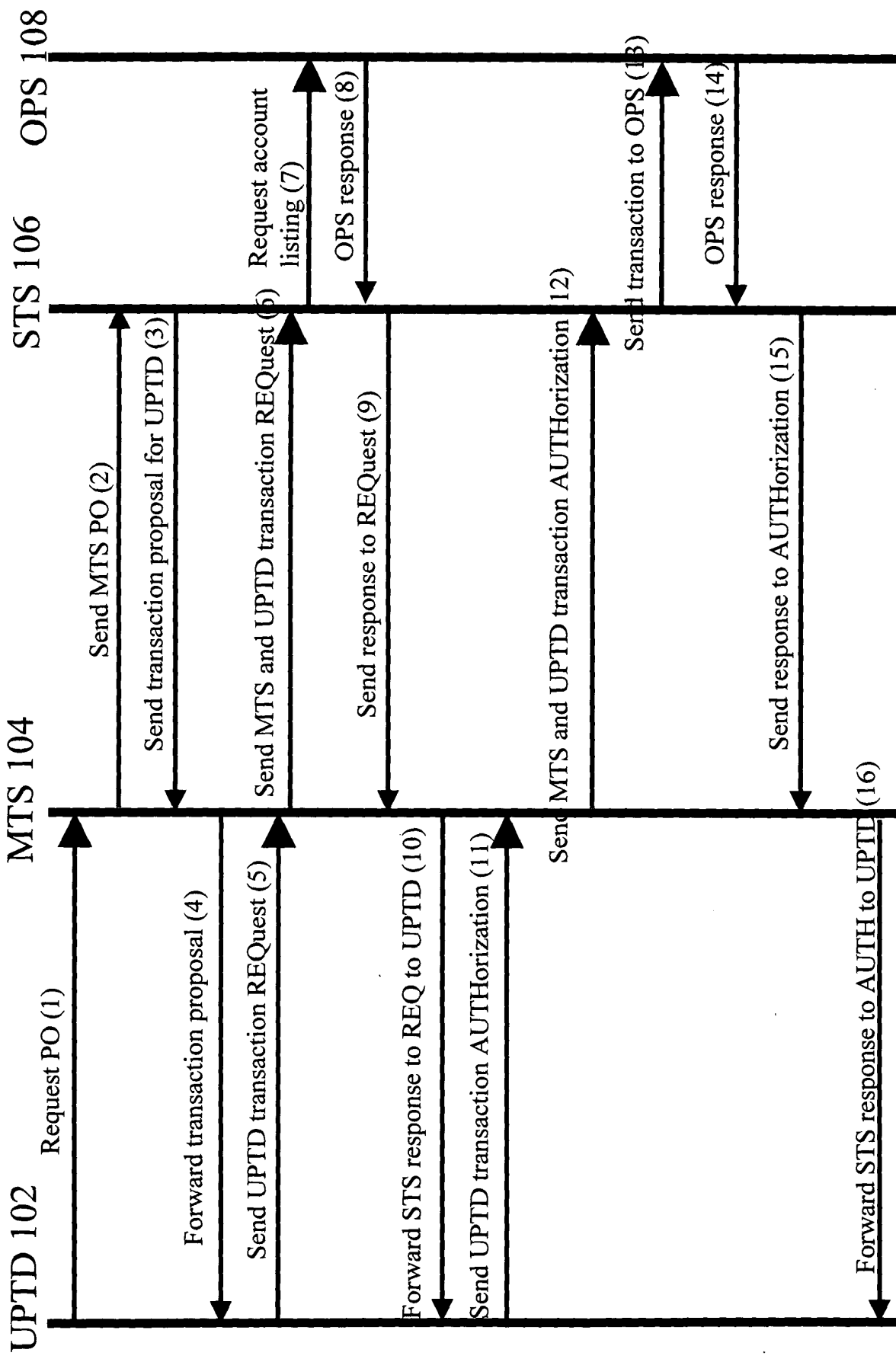
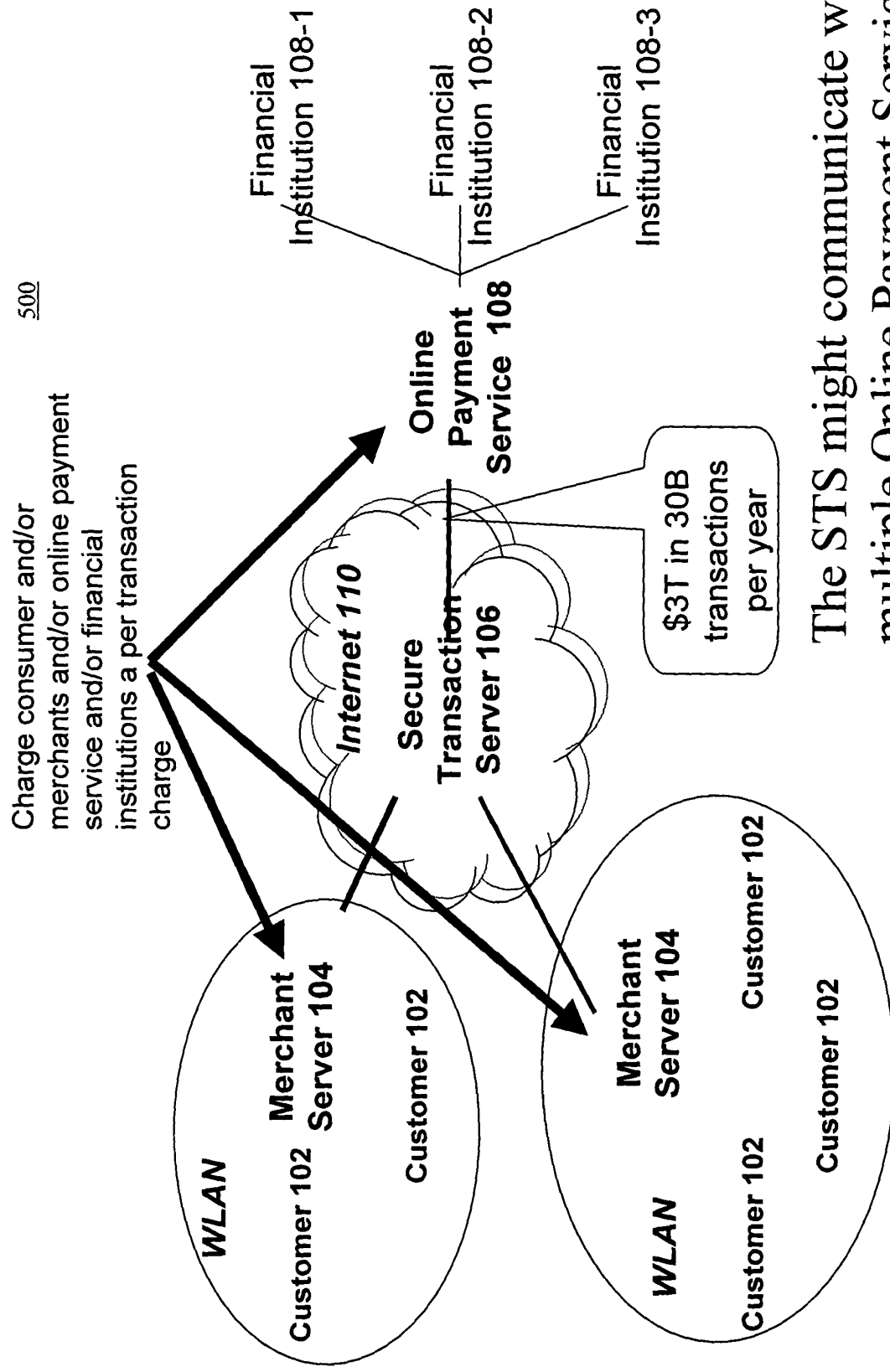


Figure 45



The STS might communicate with multiple Online Payment Services

Figure 46

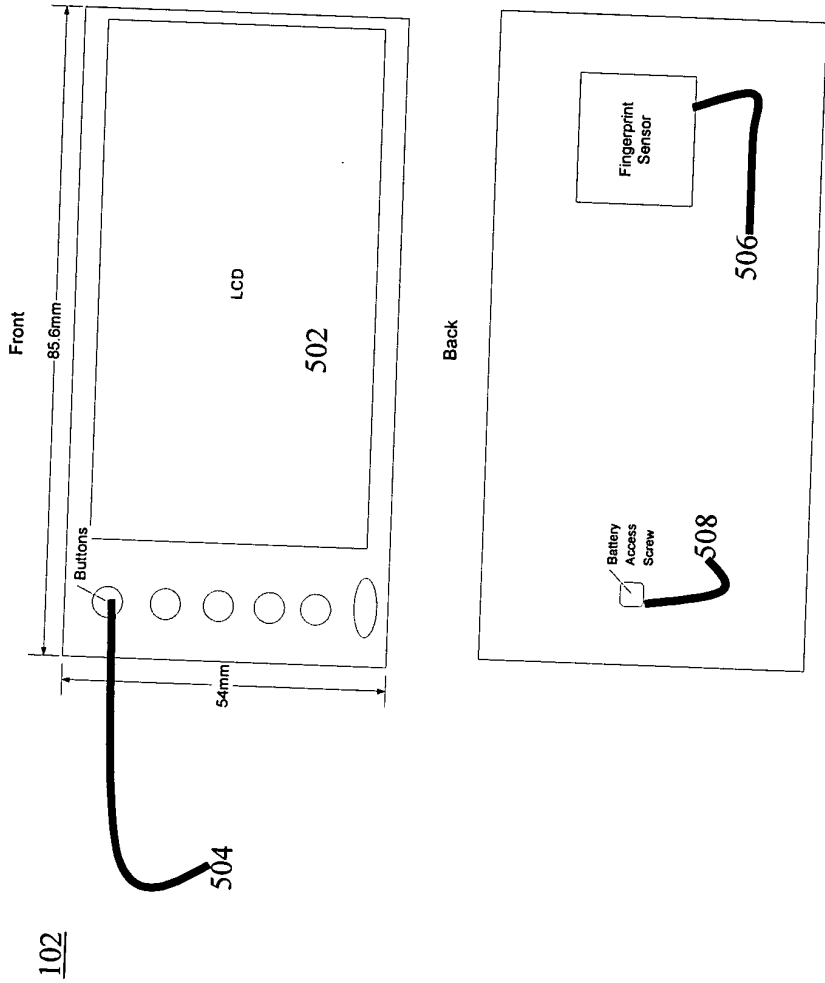


Figure 47

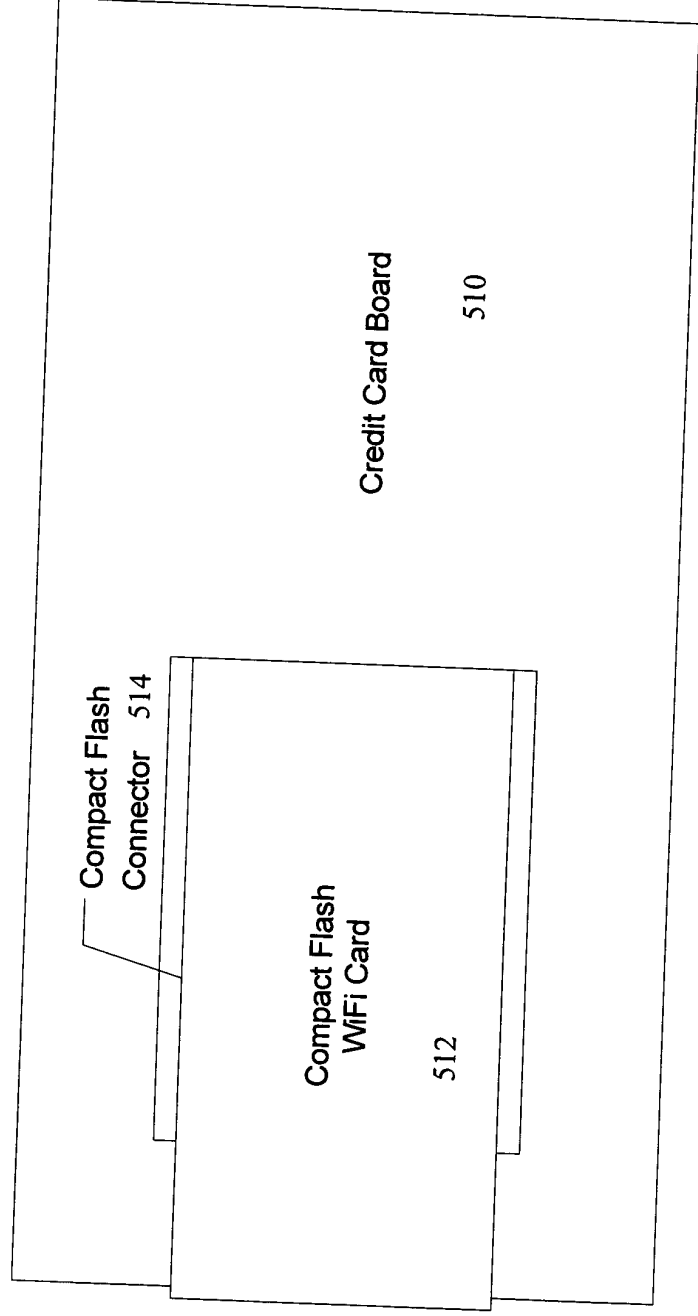


Figure 48

Side View (not to scale) 102

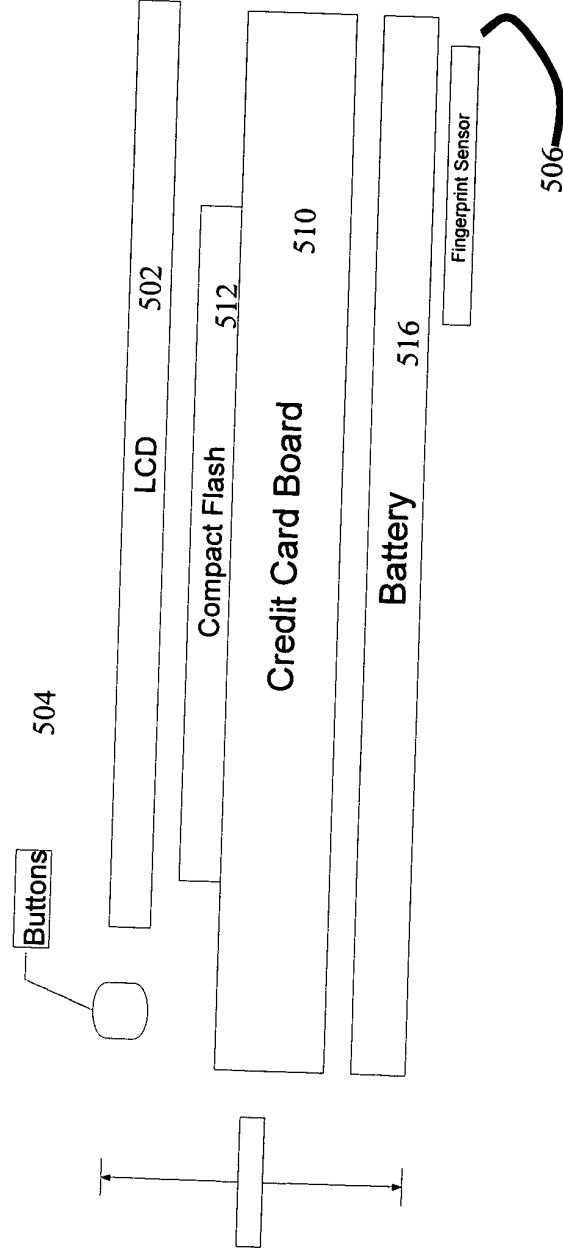


Figure 49

Side View (not to scale)

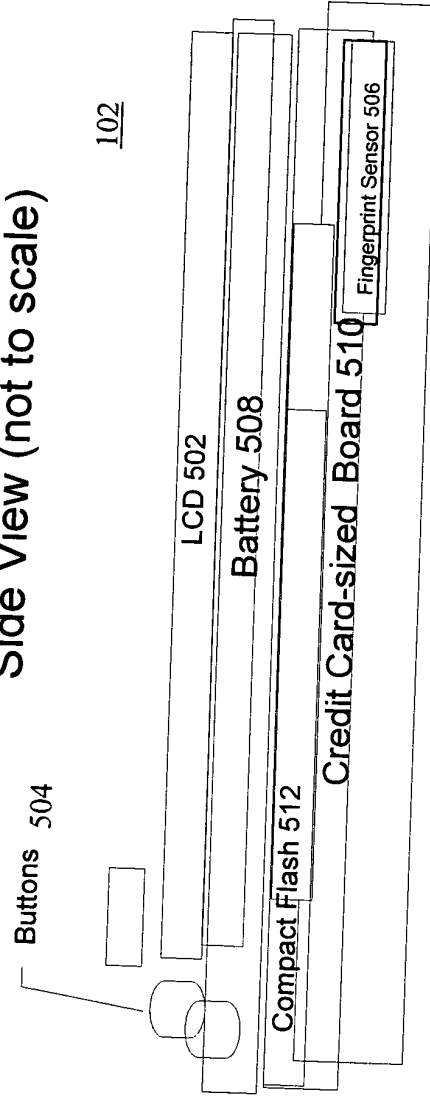


Figure 50

Pre-purchasing phase, example 600

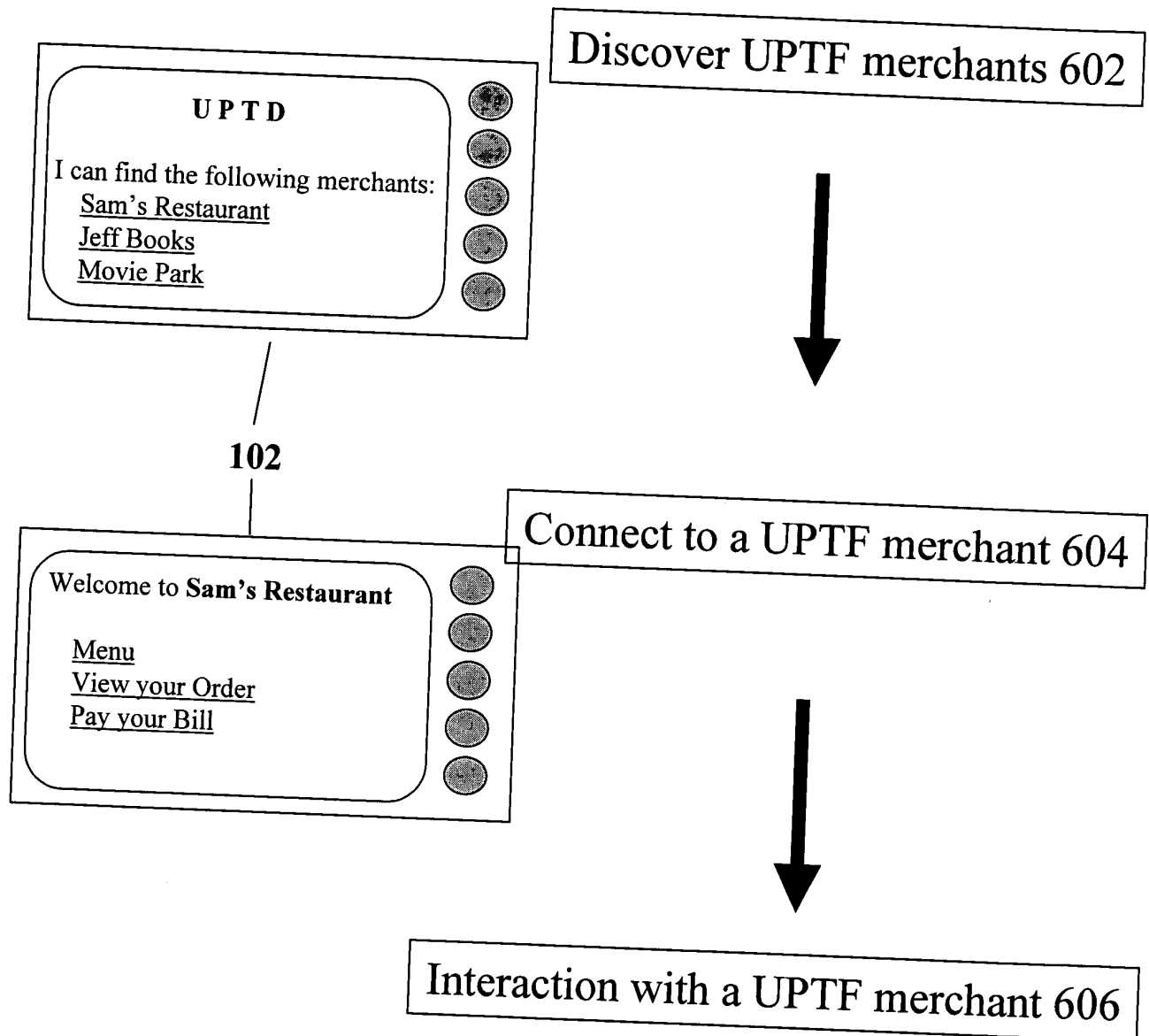


Figure 51

Physical Goods

Purchase I, example 610

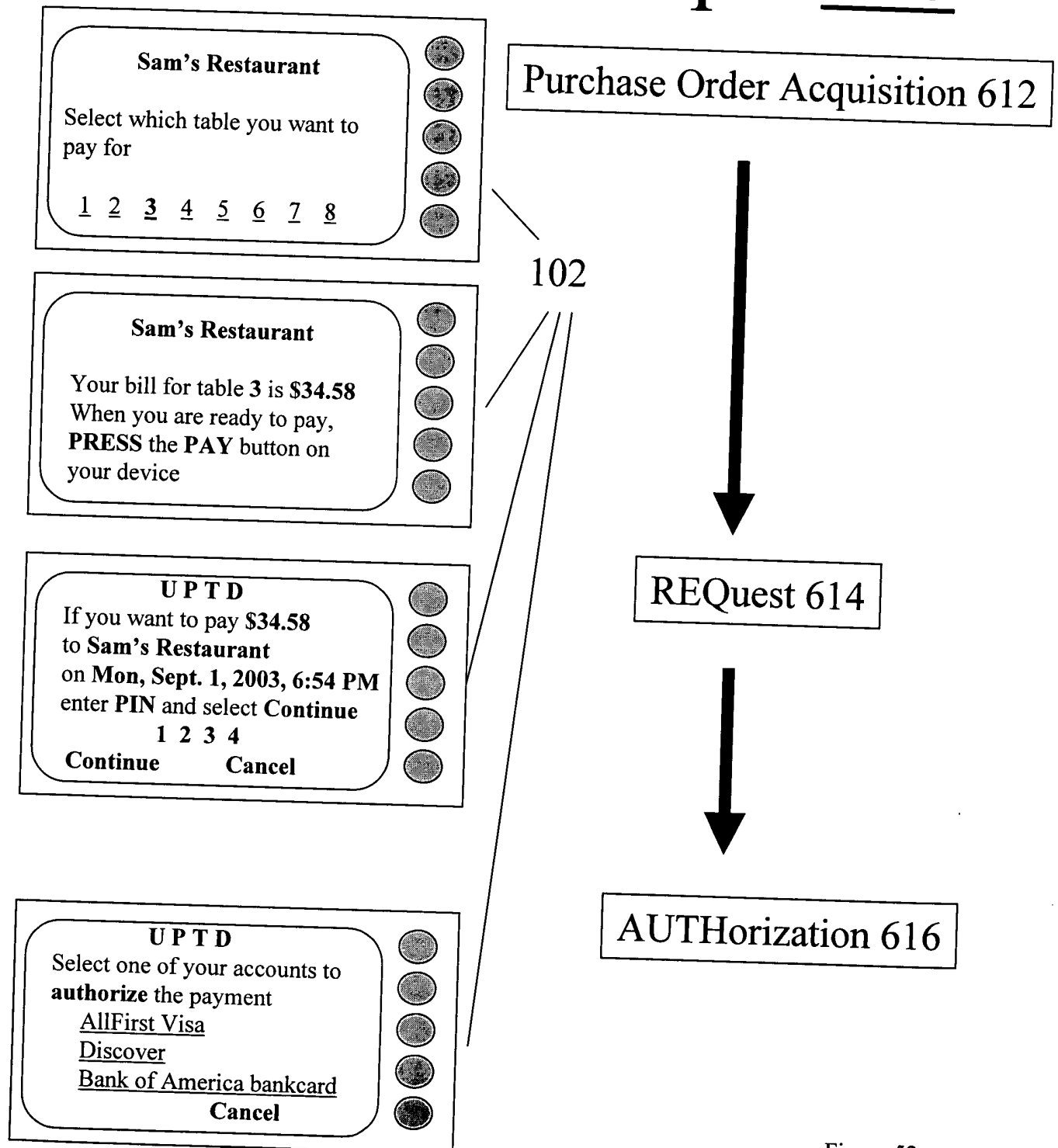


Figure 52

Physical Goods Purchase I, example, variation 620

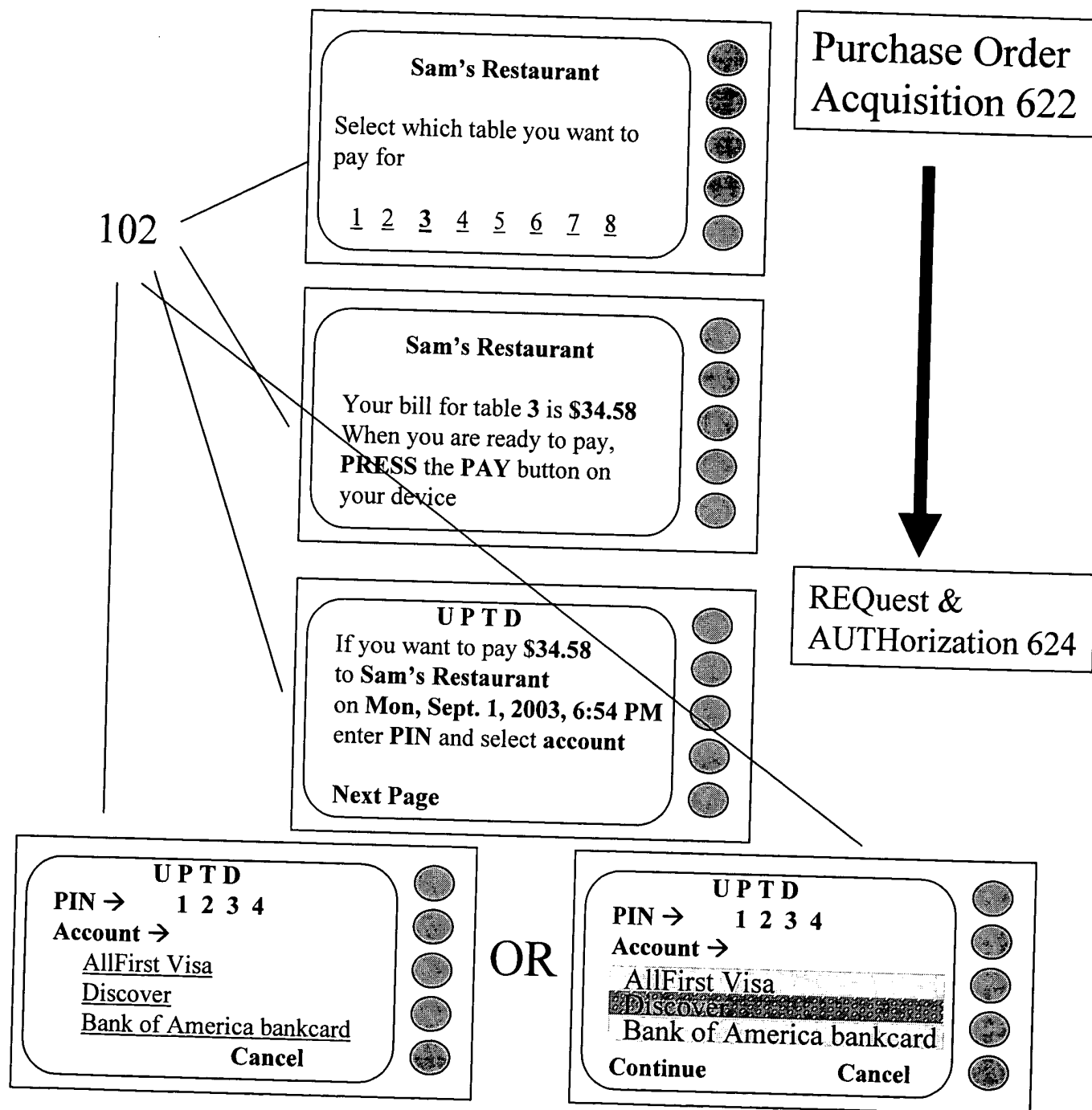


Figure 53

Physical Goods Purchase II, example 630

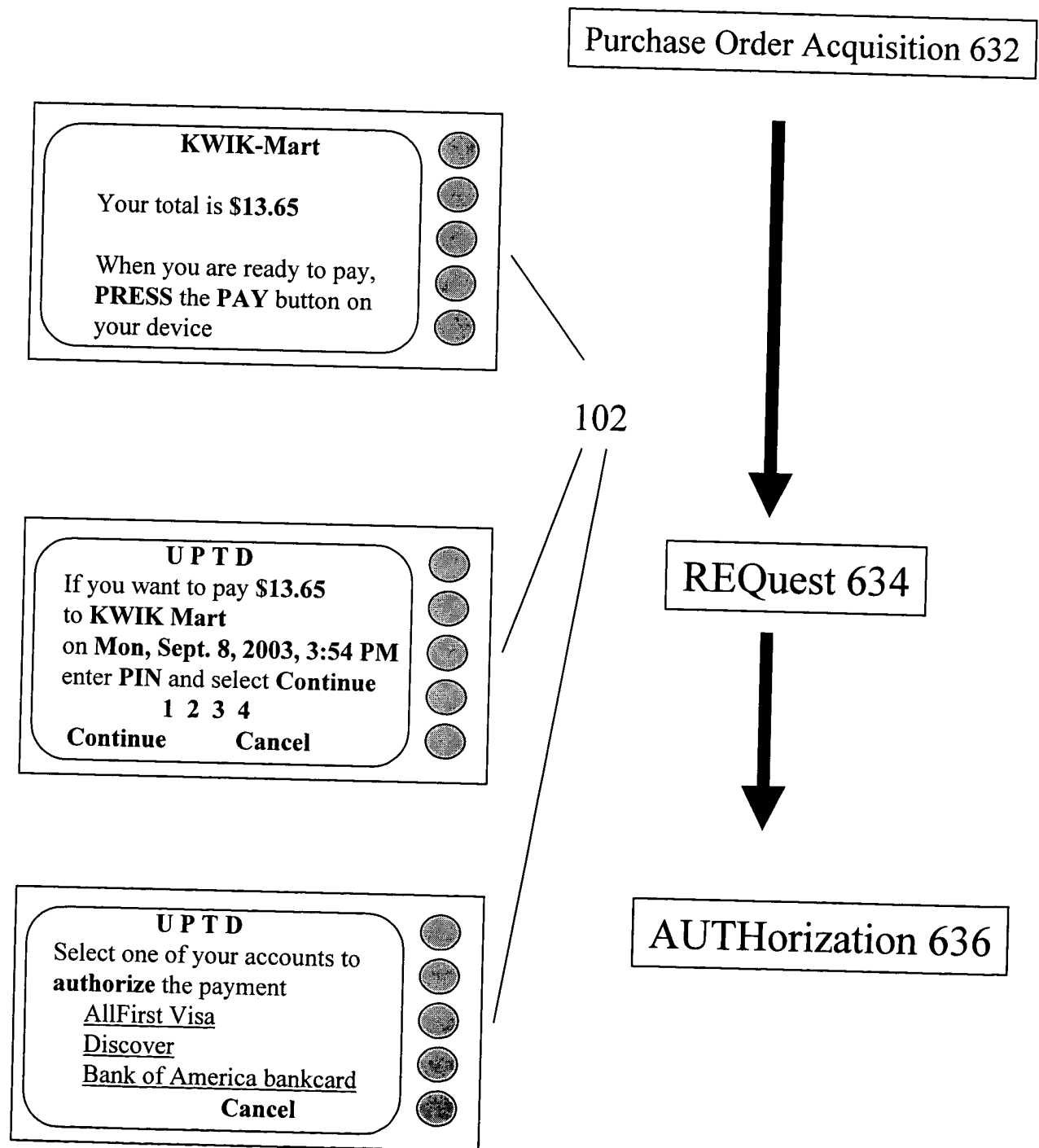


Figure 54

Service Purchase I, example 638

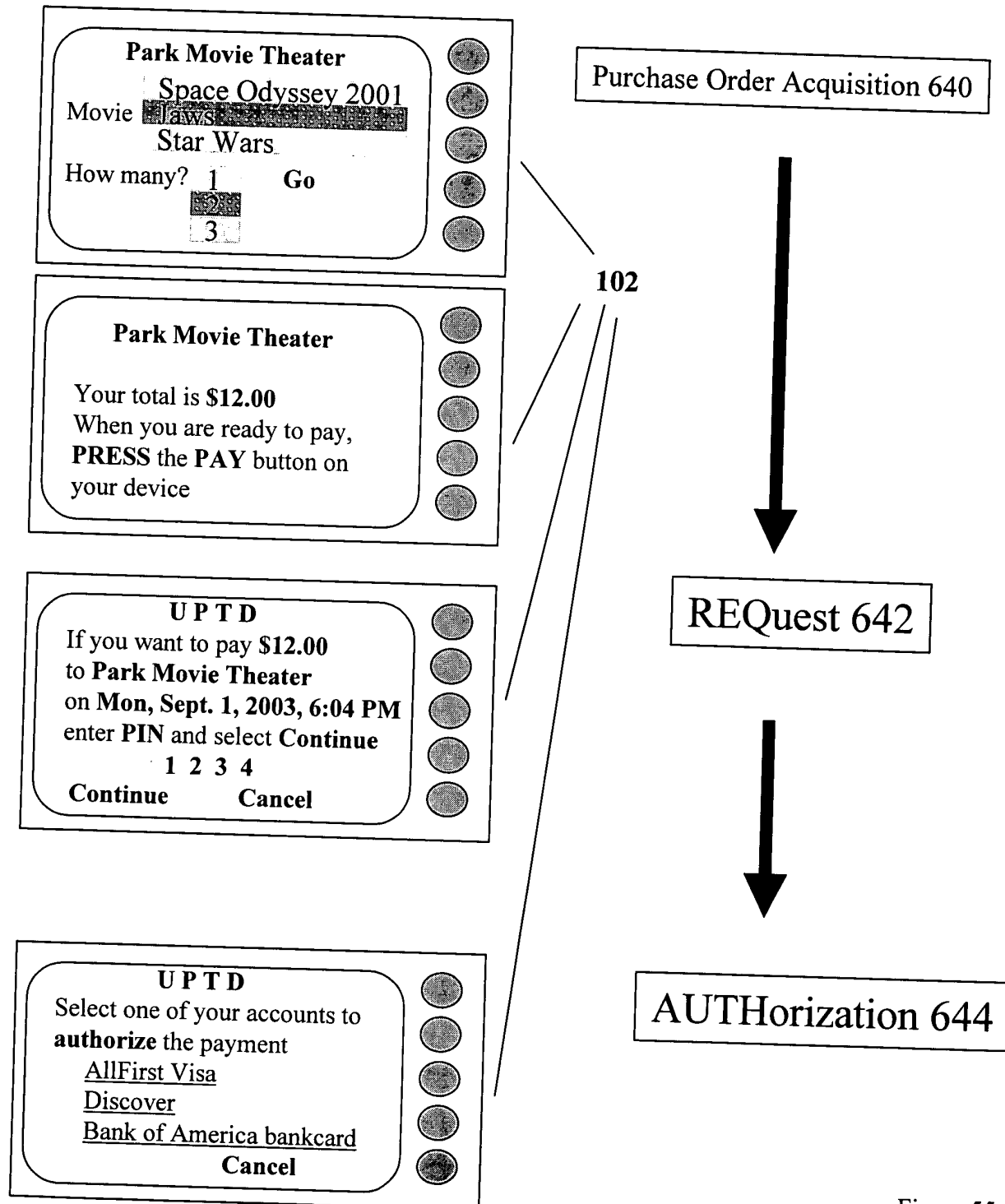


Figure 55

Service Purchase I – token verification and consumption, example 650

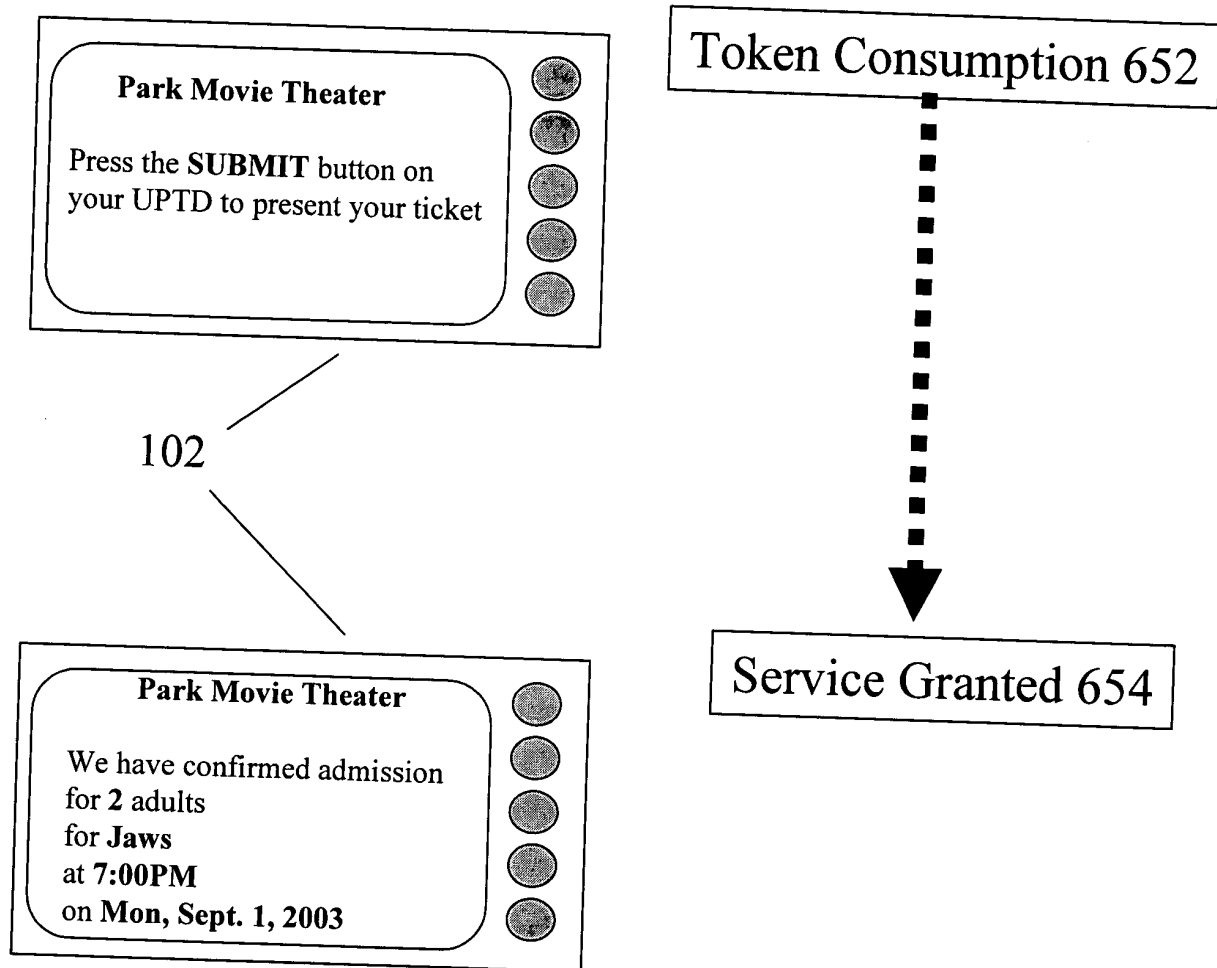


Figure 56

1100

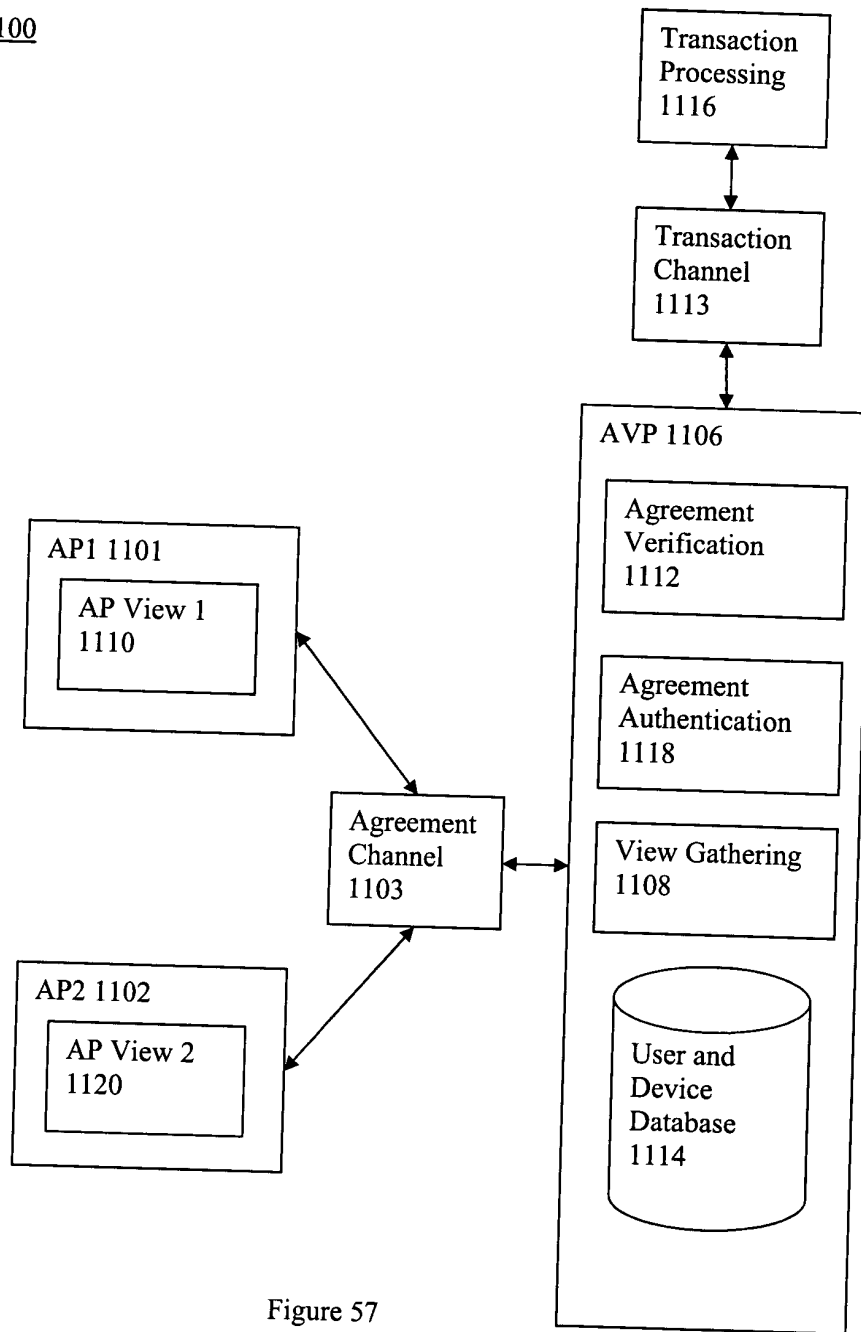


Figure 57

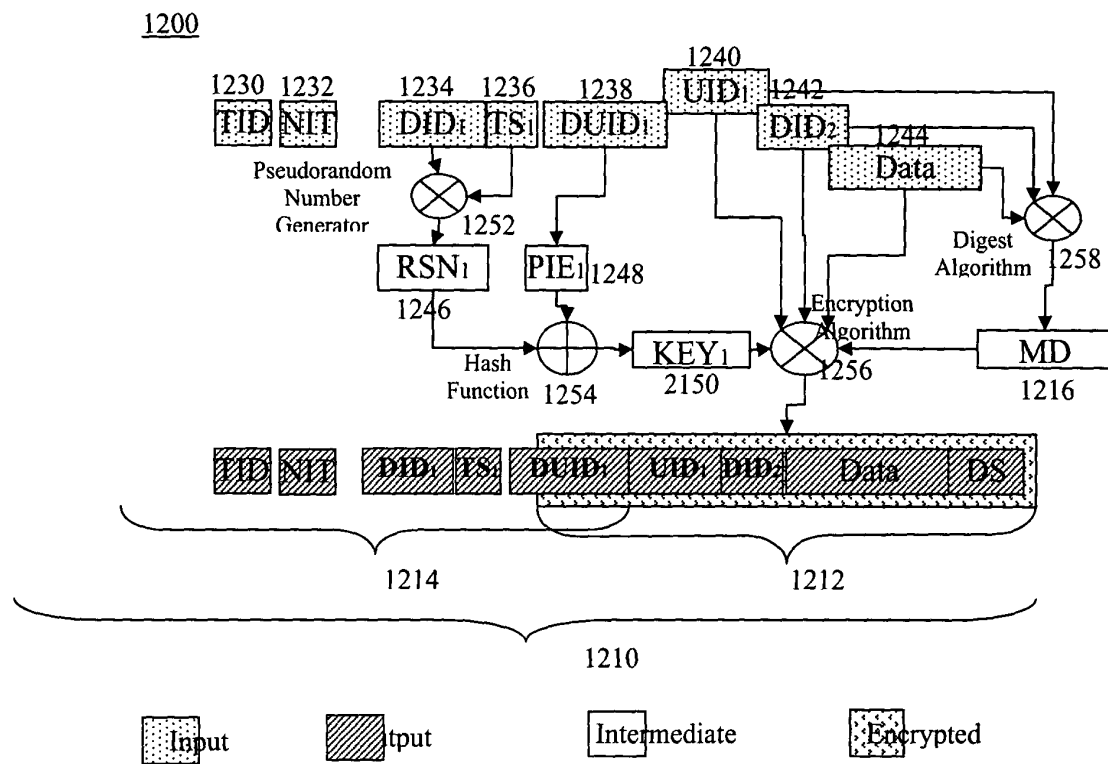


Figure 58

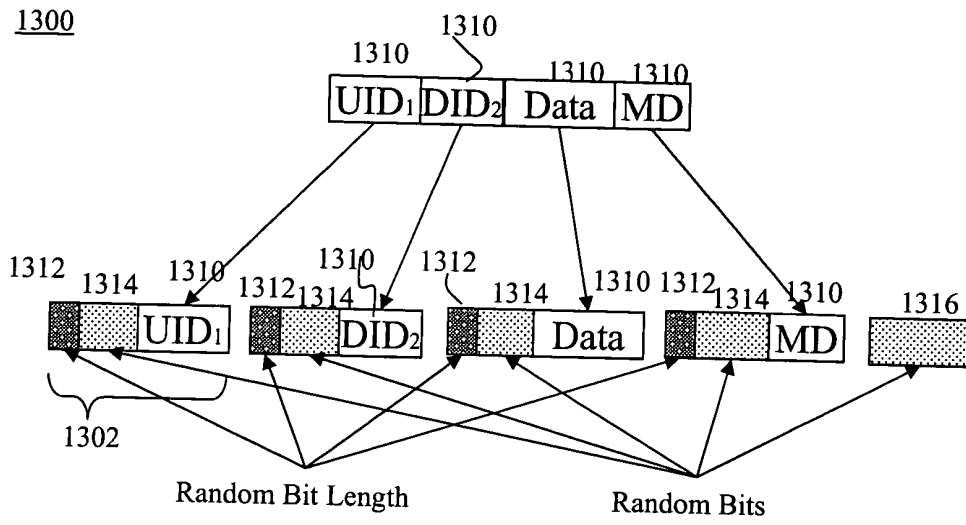


Figure 59

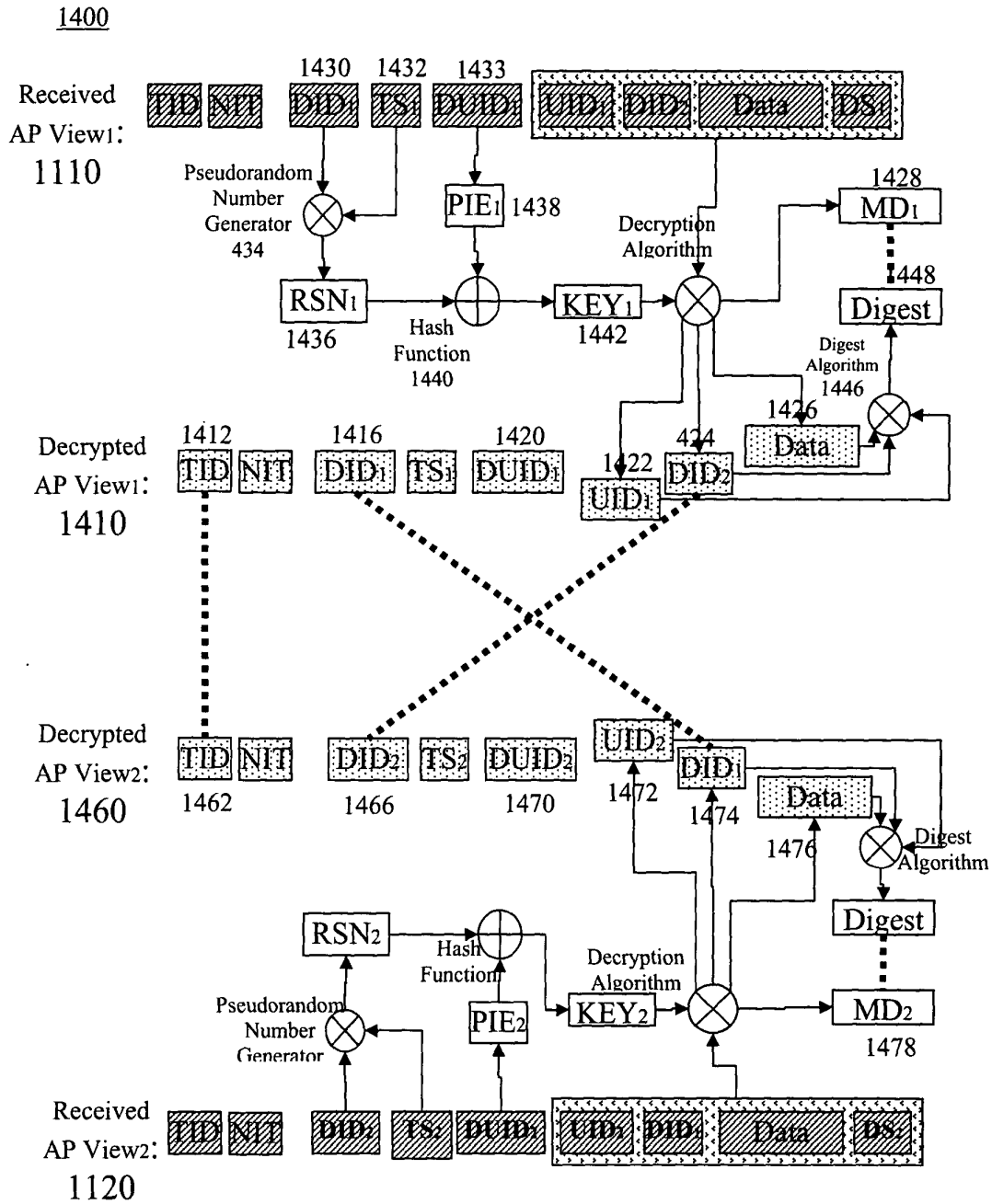


Figure 60

1500

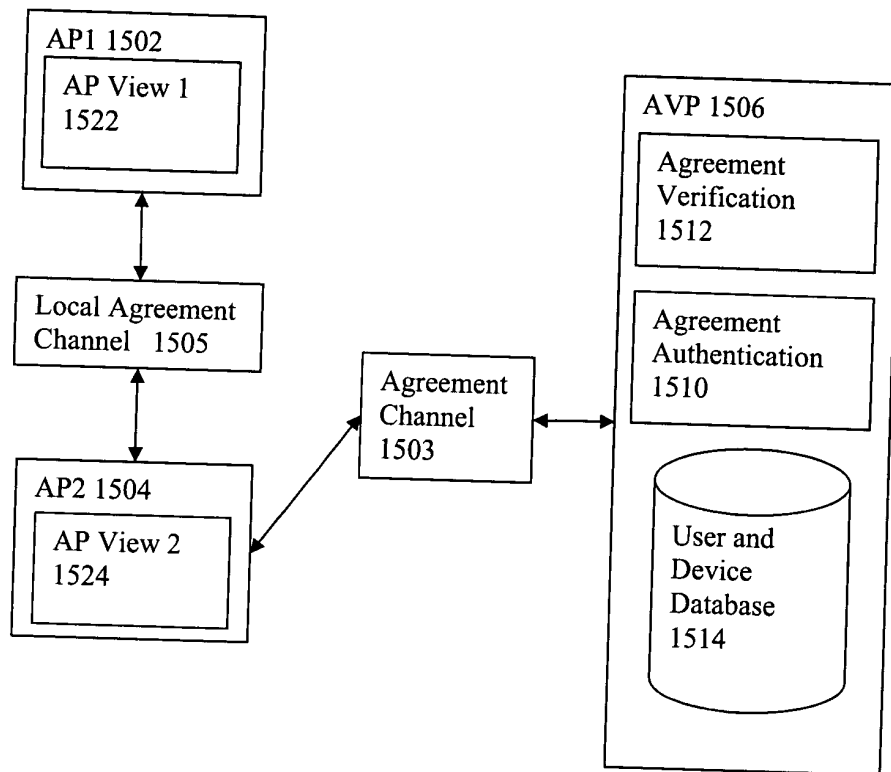


Figure 61

1600

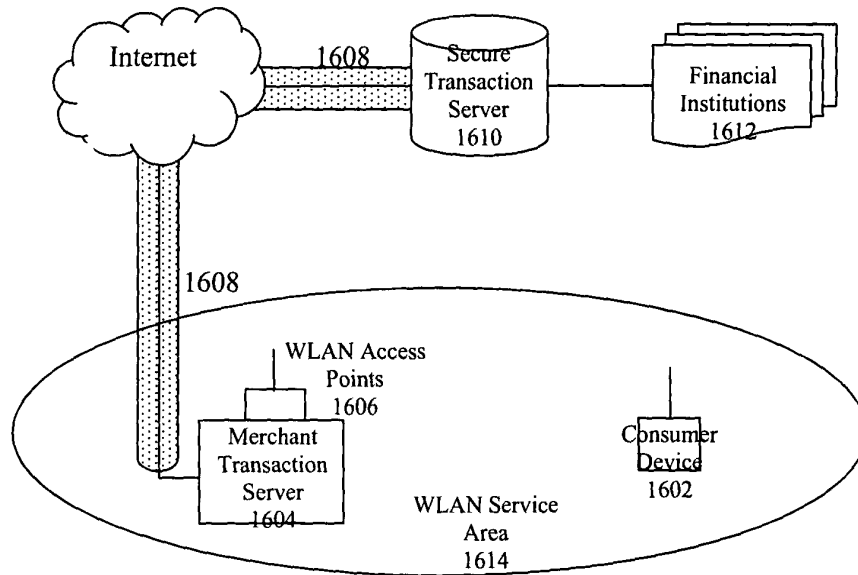


Figure 62

1800

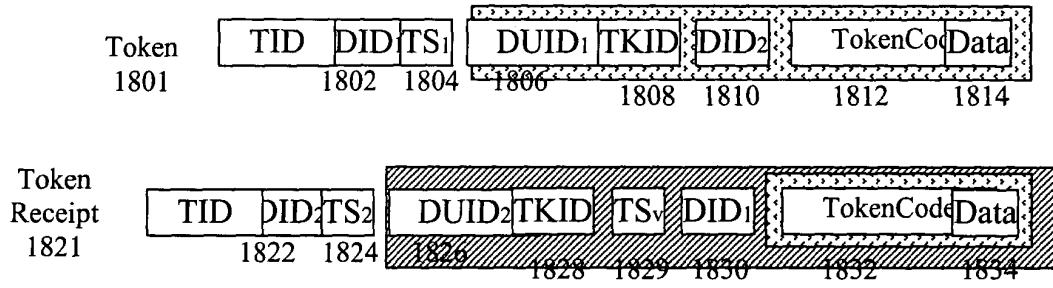


Figure 63